TACTICAL INFRASTRUCTURE (TI) WALL, FENCE & GATE STANDARD DETAILS

LEGEND

Compacted Subgrade

Engineered Fill

New Conc.

Detail Marker

Section Marker

DESCRIPTION	SHEET NO.
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WALL STANDARD DETAILS	
BOLLARD WALL SHEET 1 OF 2	W1
BOLLARD WALL SHEET 2 OF 2	W2
CONCRETE WALL DETAILS	W3
UPPER WALL DETAILS	W4
WALL TOPPING STANDARD DETAILS	
TOPPING FEATURES SHEET 1 OF 2	T1
TOPPING FEATURES SHEET 2 OF 2	T2
FENCE STANDARD DETAILS	
NORMANDY FENCE SHEET 1 OF 2	F1
NORMANDY FENCE SHEET 2 OF 2	F2
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VEHICLE BOLLARD SWING GATE SHEET 2 OF 2	G2
VEHICLE BOLLARD SWING GATE IN CONCRETE WALL SHEET 1 OF 3	G3
VEHICLE BOLLARD SWING GATE IN CONCRETE WALL SHEET 2 OF 3	G4
VEHICLE BOLLARD SWING GATE IN CONCRETE WALL SHEET 3 OF 3	G5
PERSONNEL BOLLARD SWING GATE SHEET 1 OF 2	G6
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DRAINAGE GATE IN CONCRETE WALL SUFET 1 OF 2	G10
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MESH SLIDE GATE IN BOLLARD WALL SHEET 4 OF 5	
MESH SLIDE GATE IN BOLLARD WALL SHEET 5 OF 5	
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LIGHTING AND ELECTRICAL DETAILS	E1
SINGLE LINE DIAGRAM	E2
LIGHTING CONTROL DIAGRAM	
TYP POWER DISTRIBUTION & LIGHT CONTROL CENTER	- ·
JUNCTION BOX DETAIL	E5
MISCELLANEOUS STANDARD DETAILS	
CULVERT GRATE DETAILS	IVII
GUARDRAIL DETAILS	1712
GUARDRAIL TERMINAL DETAILS	IVIO
CONCRETE LOW WATER CROSSING DETAILS	
ARTICULATED CONCRETE MAT DETAILS	IVIO
MISCELLANEOUS DETAILS	M6
ENFORCEMENT ZONE STANDARD DETAILS	
ENFORCEMENT ZONE TYPICAL SECTION	
LGDS PLACEMENT WITHIN ENFORCEMENT ZONE SHEET 1 OF 3	

LGDS PLACEMENT WITHIN ENFORCEMENT ZONE SHEET 2 OF 3....

LGDS PLACEMENT WITHIN ENFORCEMENT ZONE SHEET 3 OF 3...

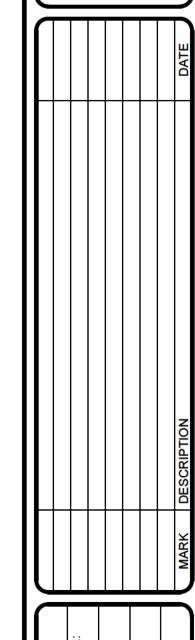
EZ3

EZ4

SHEET INDEX



10



VERASTRUCTURE

CUSTOMS AND BORDER

CUSTOMS AND BORDER

UNITED STATES BORD
PROGRAM MANAGEMENT OF

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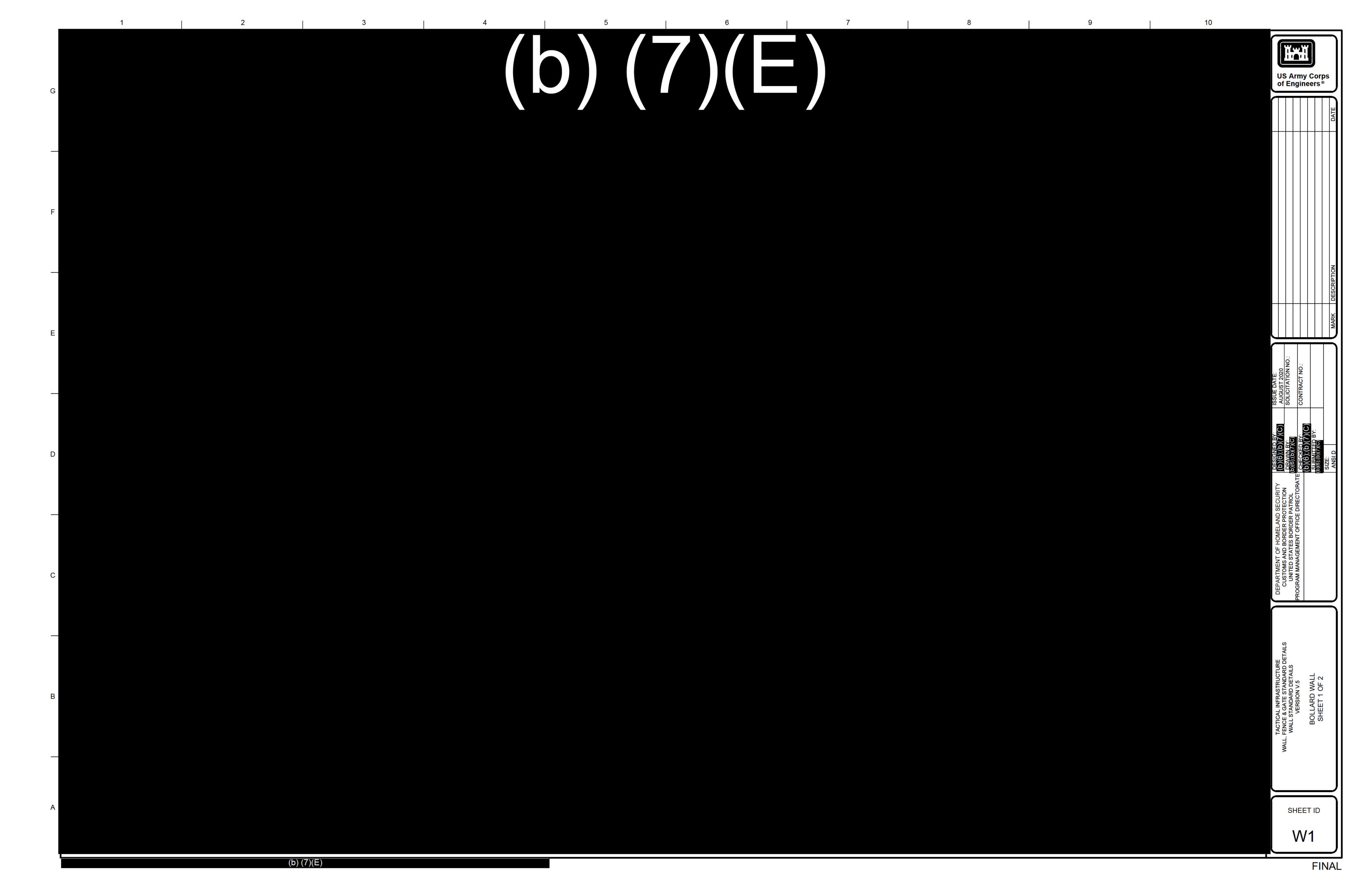
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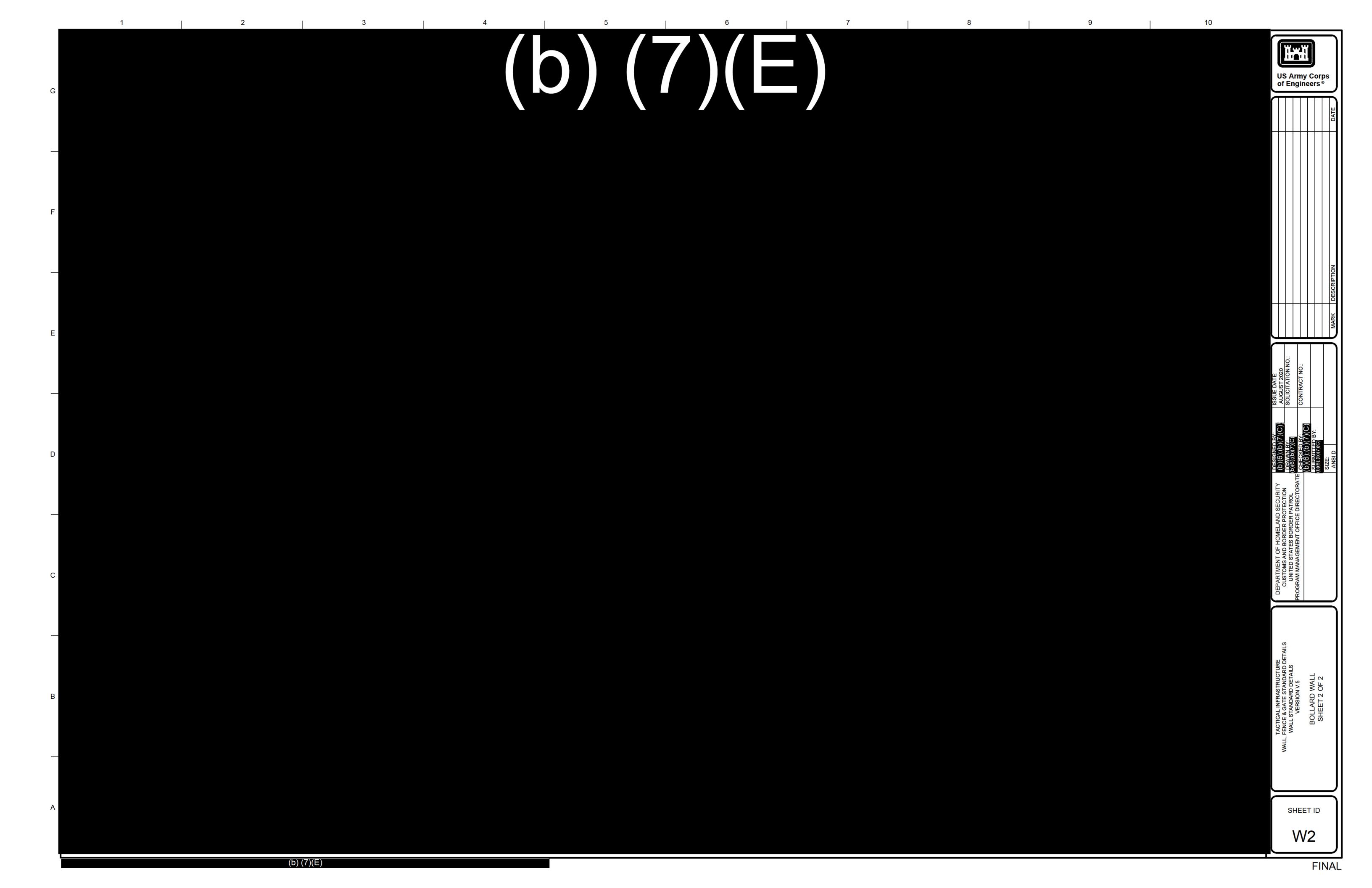
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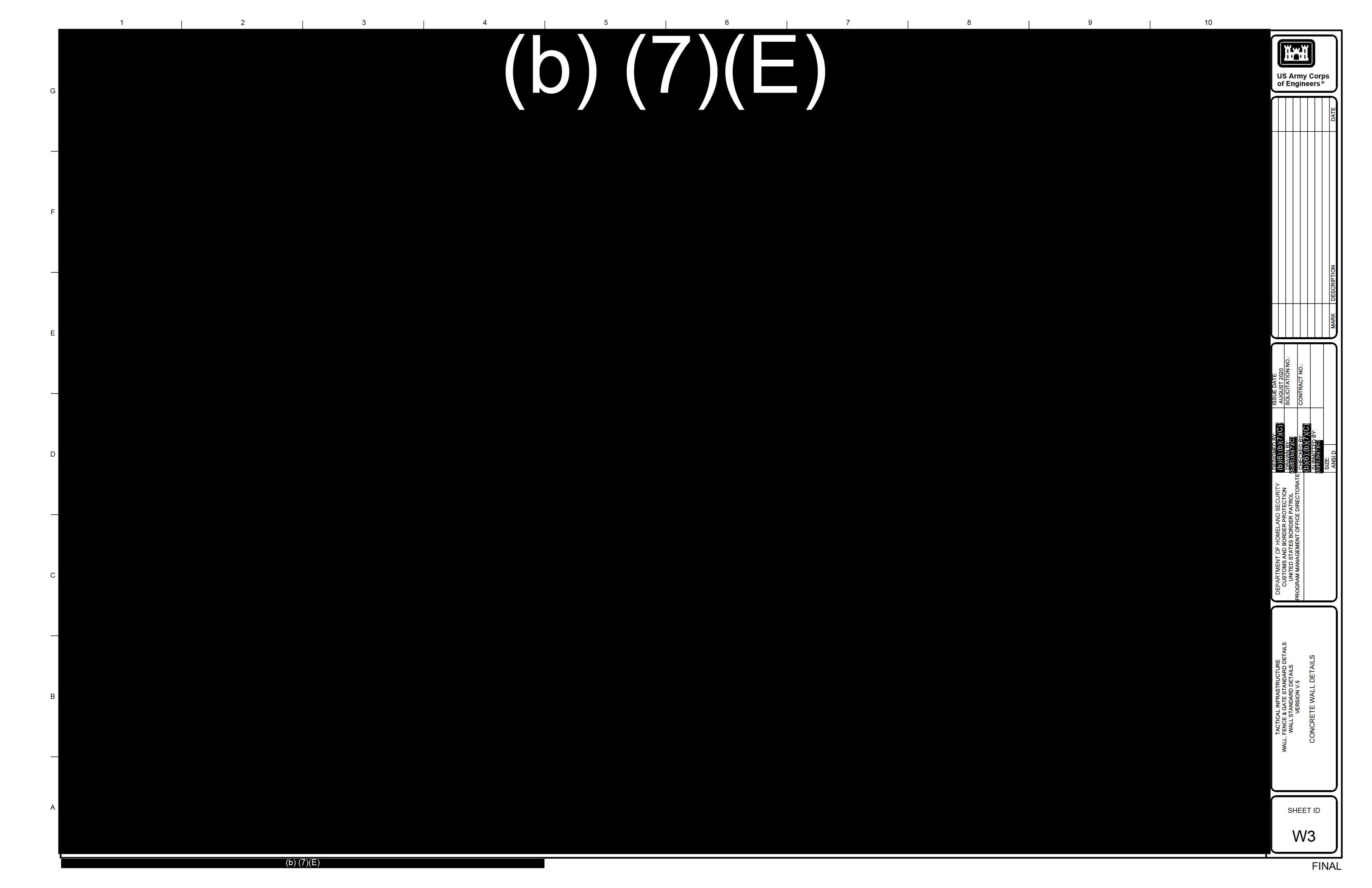
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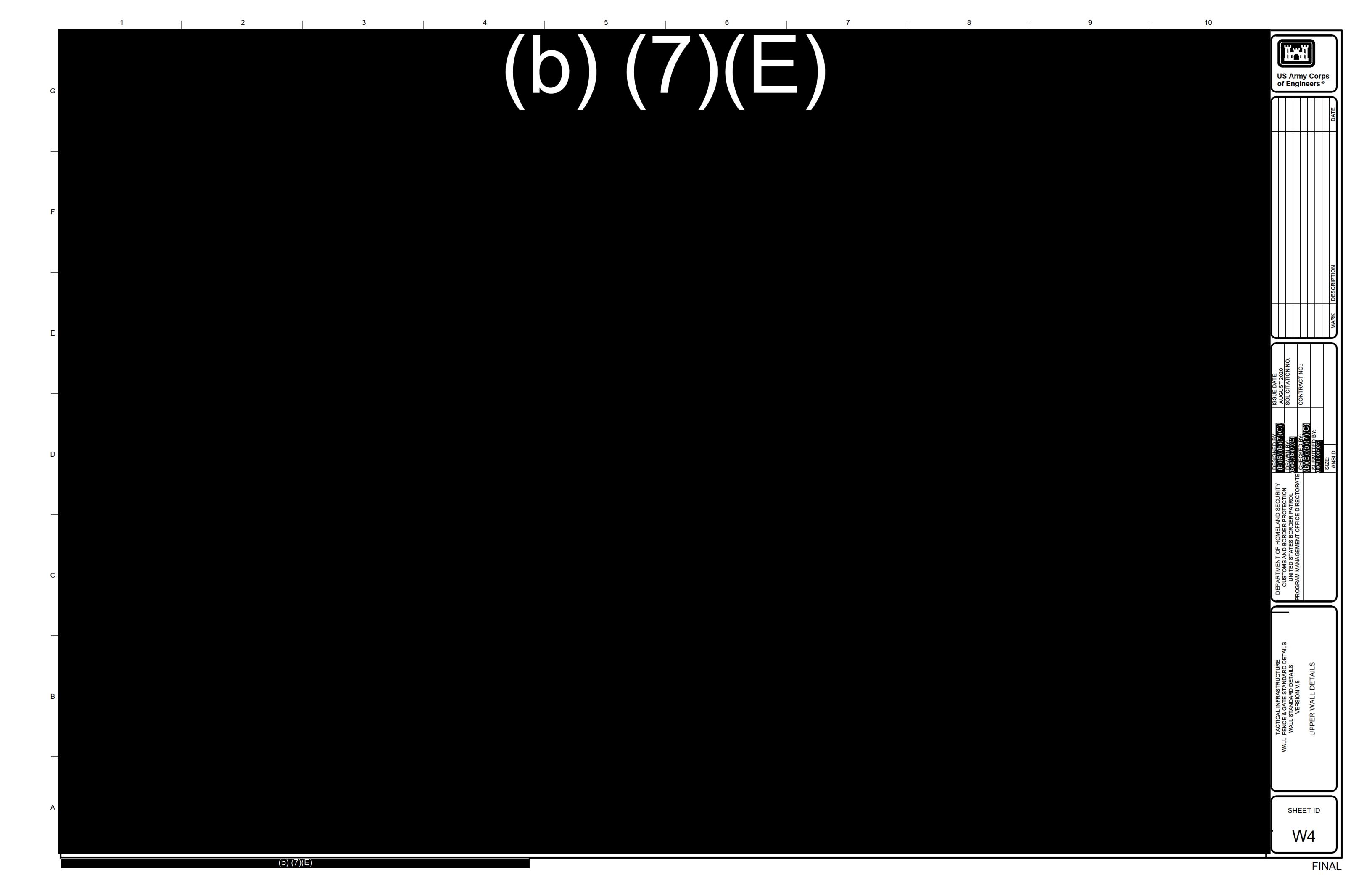
Specifications

WALL STANDARD DETAILS





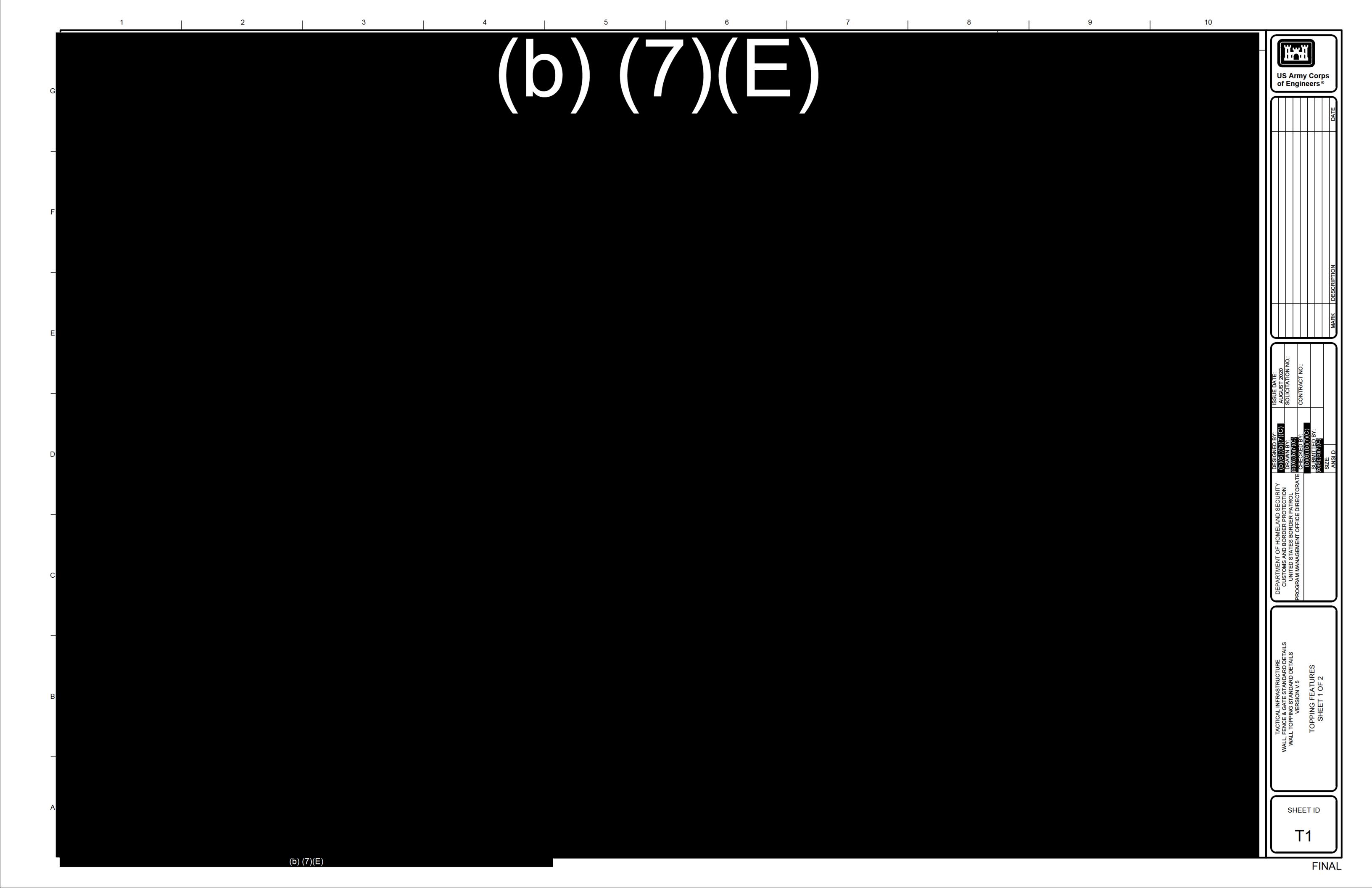


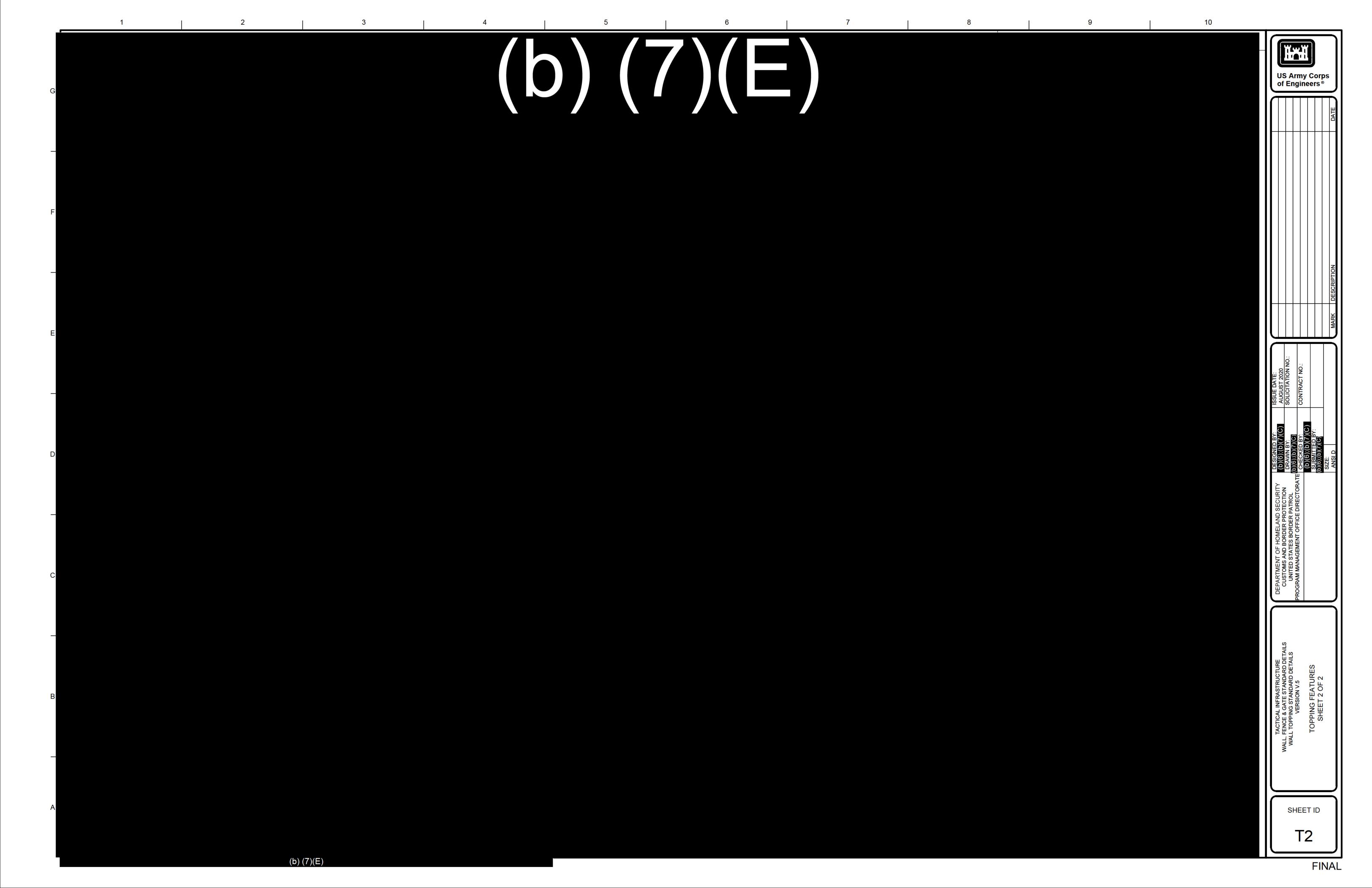


WALL TOPPING STANDARD DETAILS

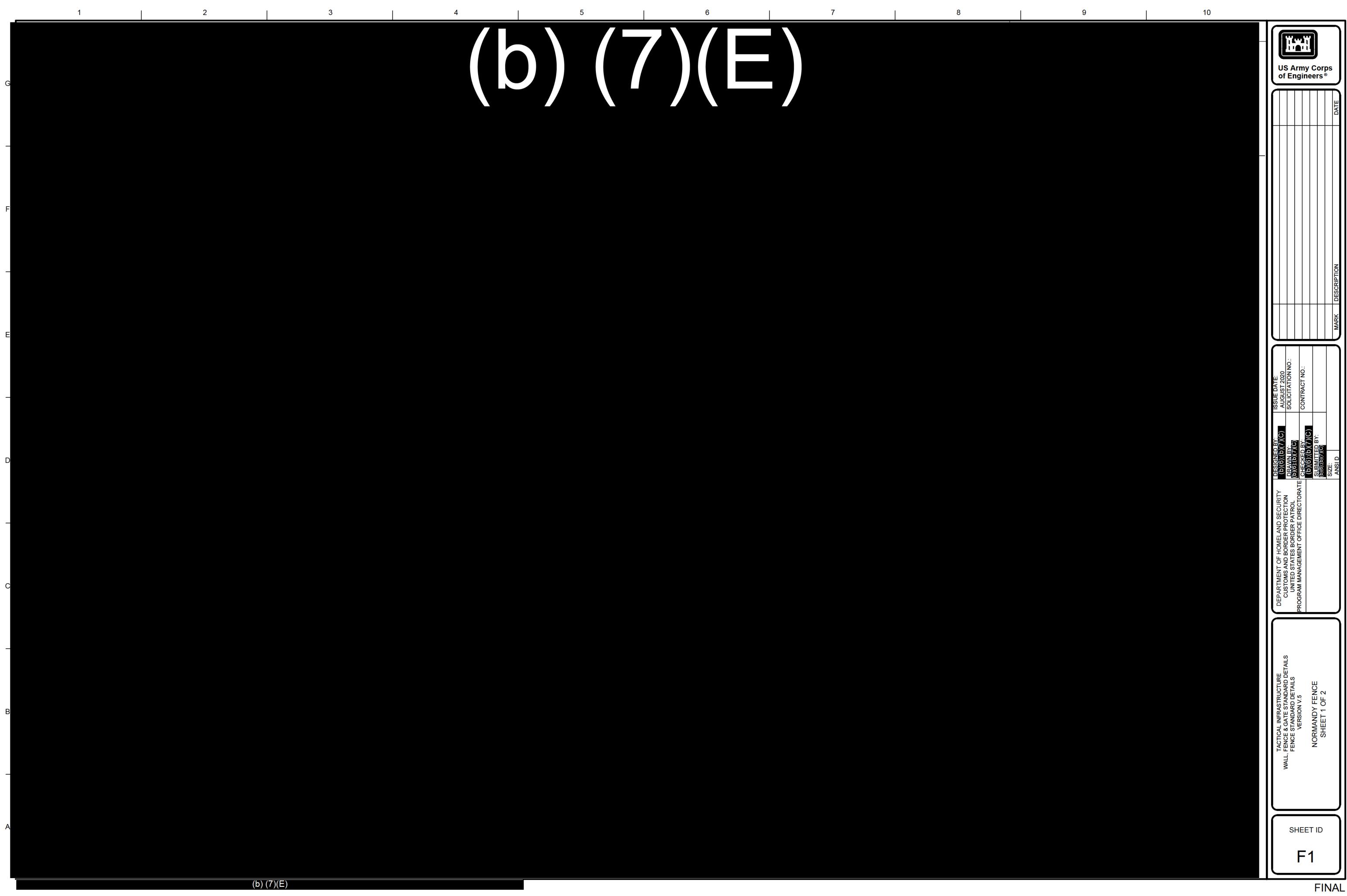
AUGUST 2020, VERSION V.5

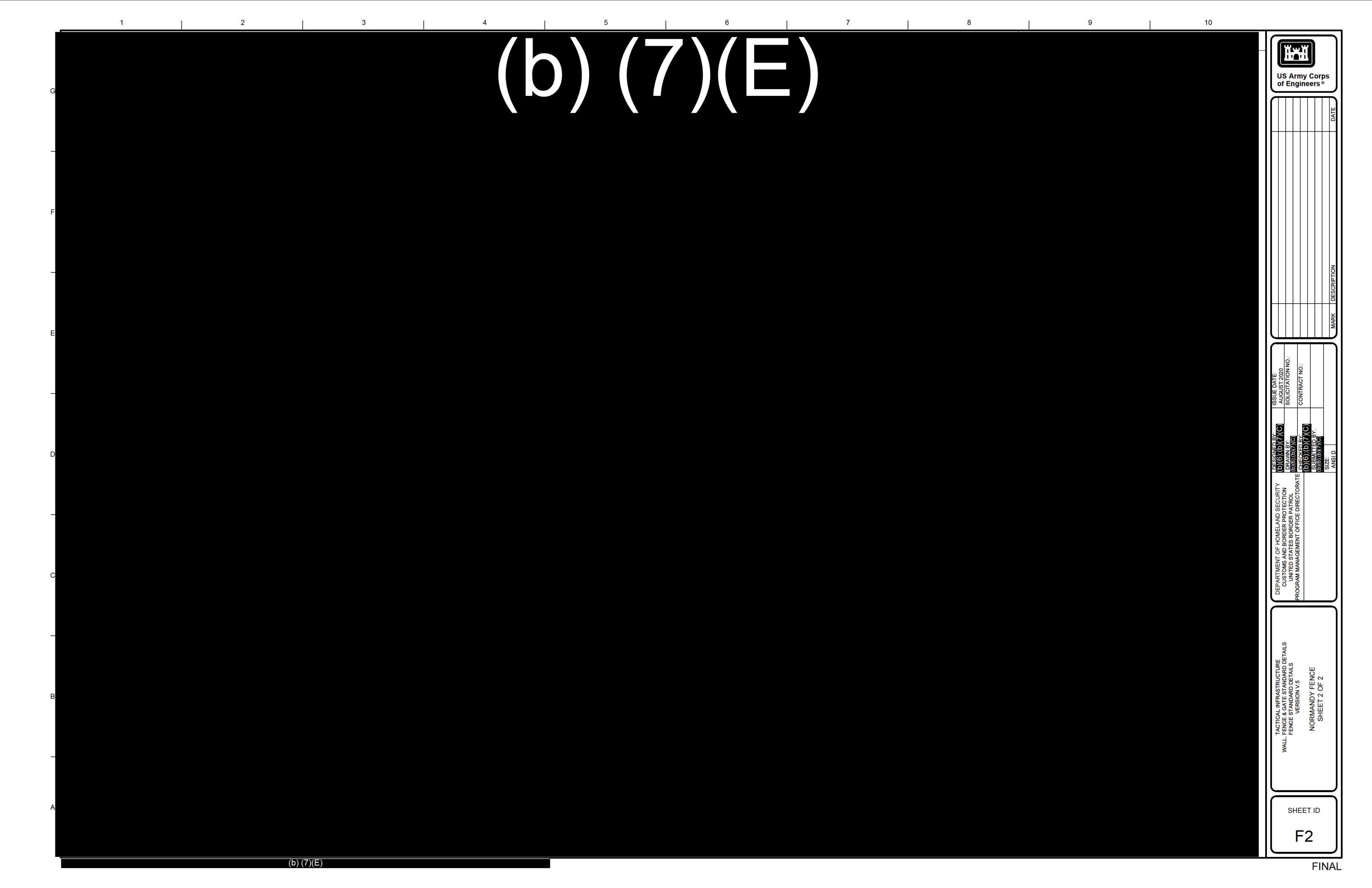
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FENCE STANDARD DETAILS





GATE STANDARD DETAILS



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				DATE	

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EPARTMENT OF HOMELAND SECURITY CUSTOMS AND BORDER PROTECTION UNITED STATES BORDER PATROL GRAM MANAGEMENT OFFICE DIRECTOR.

VEHICLE BOLLARD SWING GATE IN BOLLARD WALL SHEET 1 OF 2 TACTICAL INFRASTRUCTURE WALL, FENCE & GATE STANDARD DETAILS GATE STANDARD DETAILS VERSION V.5

SHEET ID



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VEHICLE BOLLARD SWING GATE IN BOLLARD WALL SHEET 2 OF 2 TACTICAL INFRASTRUCTURE WALL, FENCE & GATE STANDARD DETAILS GATE STANDARD DETAILS VERSION V.5

SHEET ID

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VEHICLE BOLLARD SWING GATE IN CONCRETE WALL SHEET 1 OF 3 TACTICAL INFRASTRUCTURE WALL, FENCE & GATE STANDARD DETAILS GATE STANDARD DETAILS VERSION V.5

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VEHICLE BOLLARD SWING GATE IN CONCRETE WALL SHHET 2 OF 3 TACTICAL INFRASTRUCTURE WALL, FENCE & GATE STANDARD DETAILS GATE STANDARD DETAILS VERSION V.5



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DATE

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VEHICLE BOLLARD SWING GATE IN CONCRETE WALL SHEET 3 OF 3 TACTICAL INFRASTRUCTURE WALL, FENCE & GATE STANDARD DETAILS GATE STANDARD DETAILS VERSION V.5



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PERSONNEL BOLLARD SWING GATE IN BOLLARD WALL SHEET 1 OF 2 TACTICAL INFRASTRUCTURE WALL, FENCE & GATE STANDARD DETAILS GATE STANDARD DETAILS VERSION V.5

SHEET ID



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PERSONNEL BOLLARD SWING GATE IN BOLLARD WALL SHEET 2 OF 2 TACTICAL INFRASTRUCTURE WALL, FENCE & GATE STANDARD DETAILS GATE STANDARD DETAILS VERSION V.5



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PERSONNEL BOLLARD SWING GATE IN CONCRETE WALL SHEET 1 OF 2 TACTICAL INFRASTRUCTURE WALL, FENCE & GATE STANDARD DETAILS GATE STANDARD DETAILS VERSION V.5

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PERSONNEL BOLLARD SWING GATE IN CONCRETE WALL SHEET 2 OF 2

TACTICAL INFRASTRUCTURE WALL, FENCE & GATE STANDARD DETAILS

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DRAINAGE GATE DETAILS IN BOLLARD WALL

SHEET ID

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TACTICAL INFRASTRUCTURE WALL, FENCE & GATE STANDARD DETAILS WALL STANDARD DETAILS VERSION V.5 GE GATE DETAILS IN CONCRETE SHEET 1 OF 2

SHEET ID

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SHEET ID



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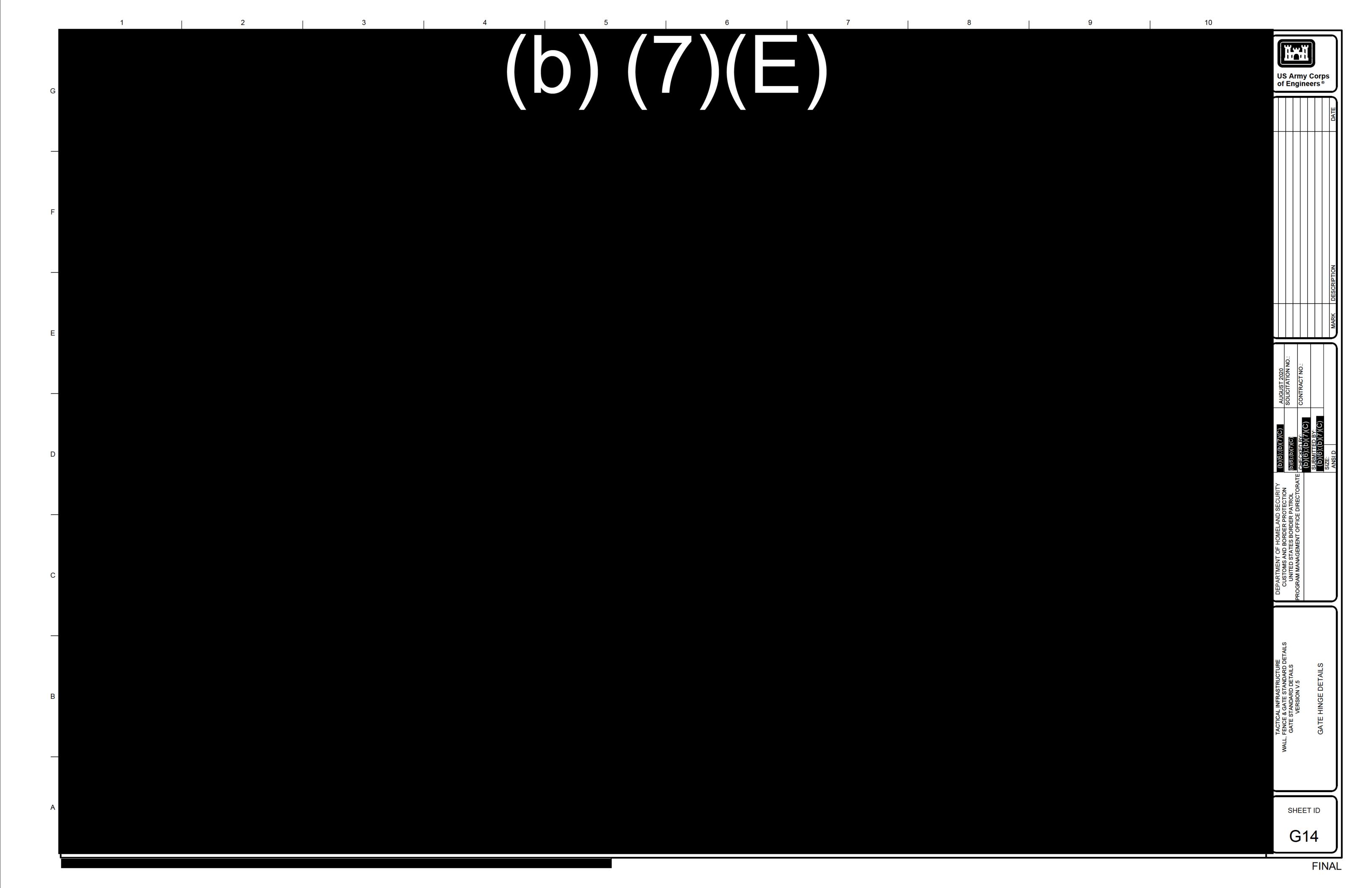
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PARTMENT OF HOMELAND SECURITY CUSTOMS AND BORDER PROTECTION UNITED STATES BORDER PATROL SRAM MANAGEMENT OFFICE DIRECTORA

TACTICAL INFRASTRUCTURE WALL, FENCE & GATE STANDARD DETAILS GATE STANDARD DETAILS VERSION V.5 SWING GATE DETAILS

SHEET ID





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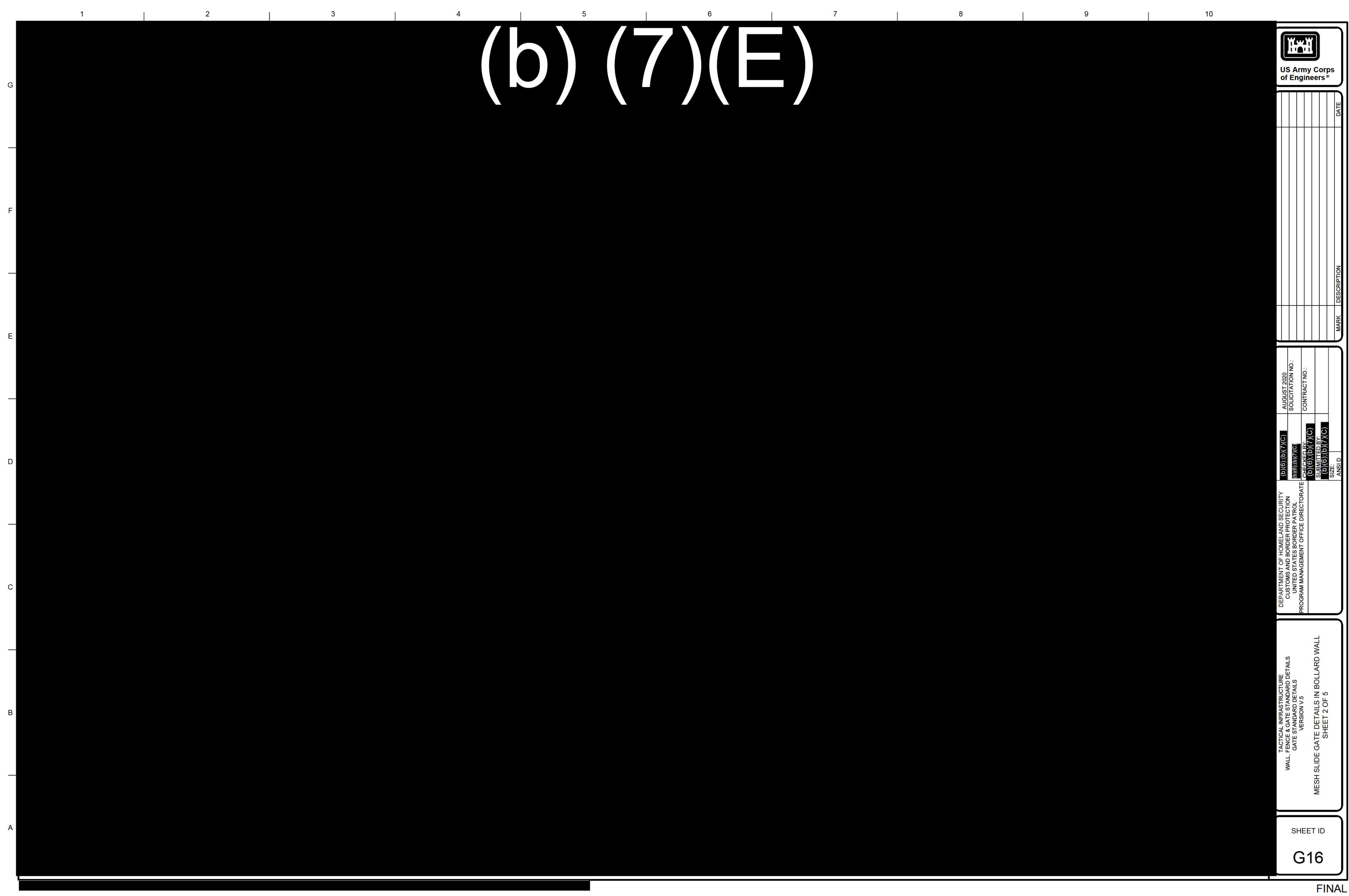
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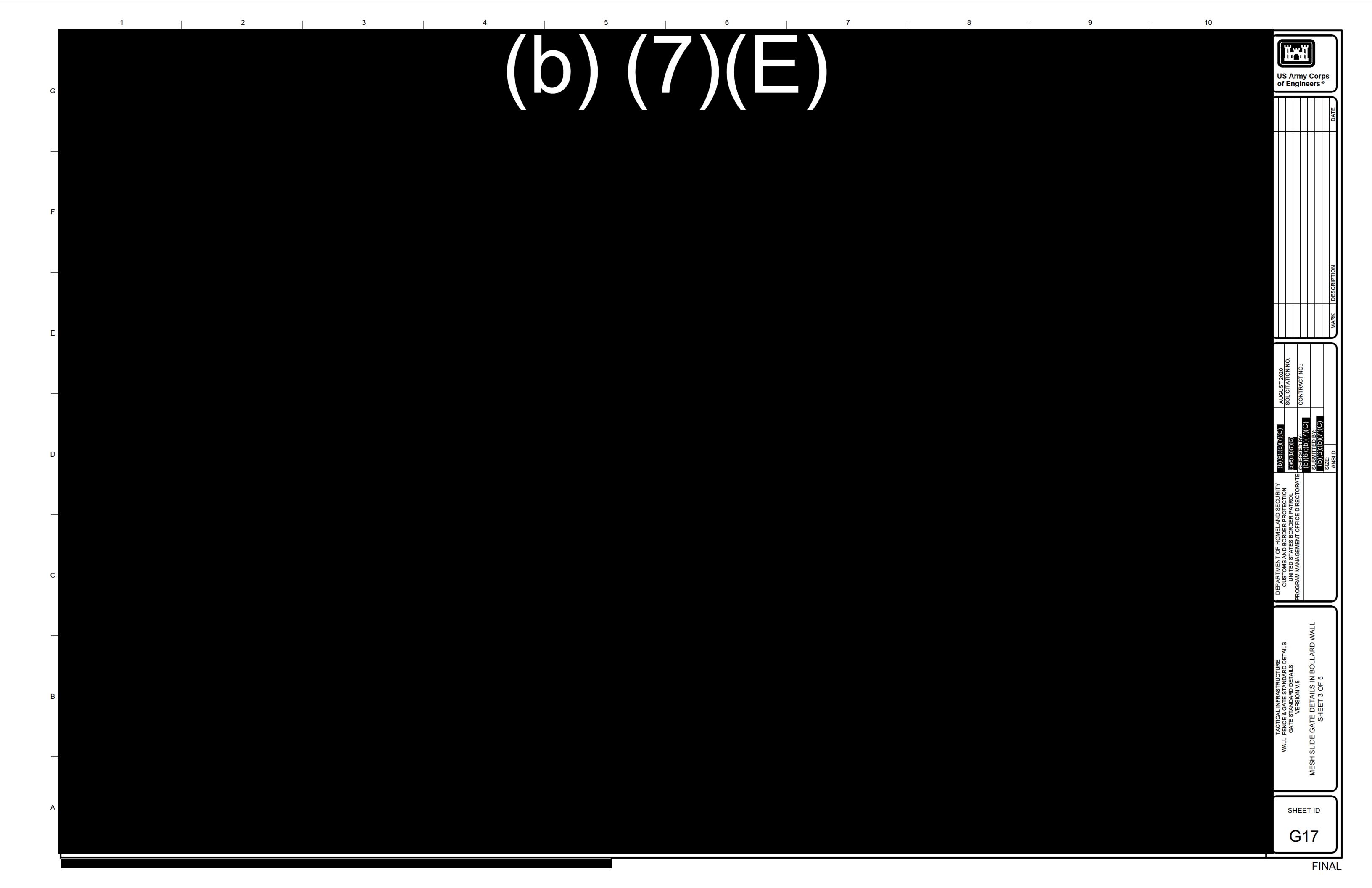
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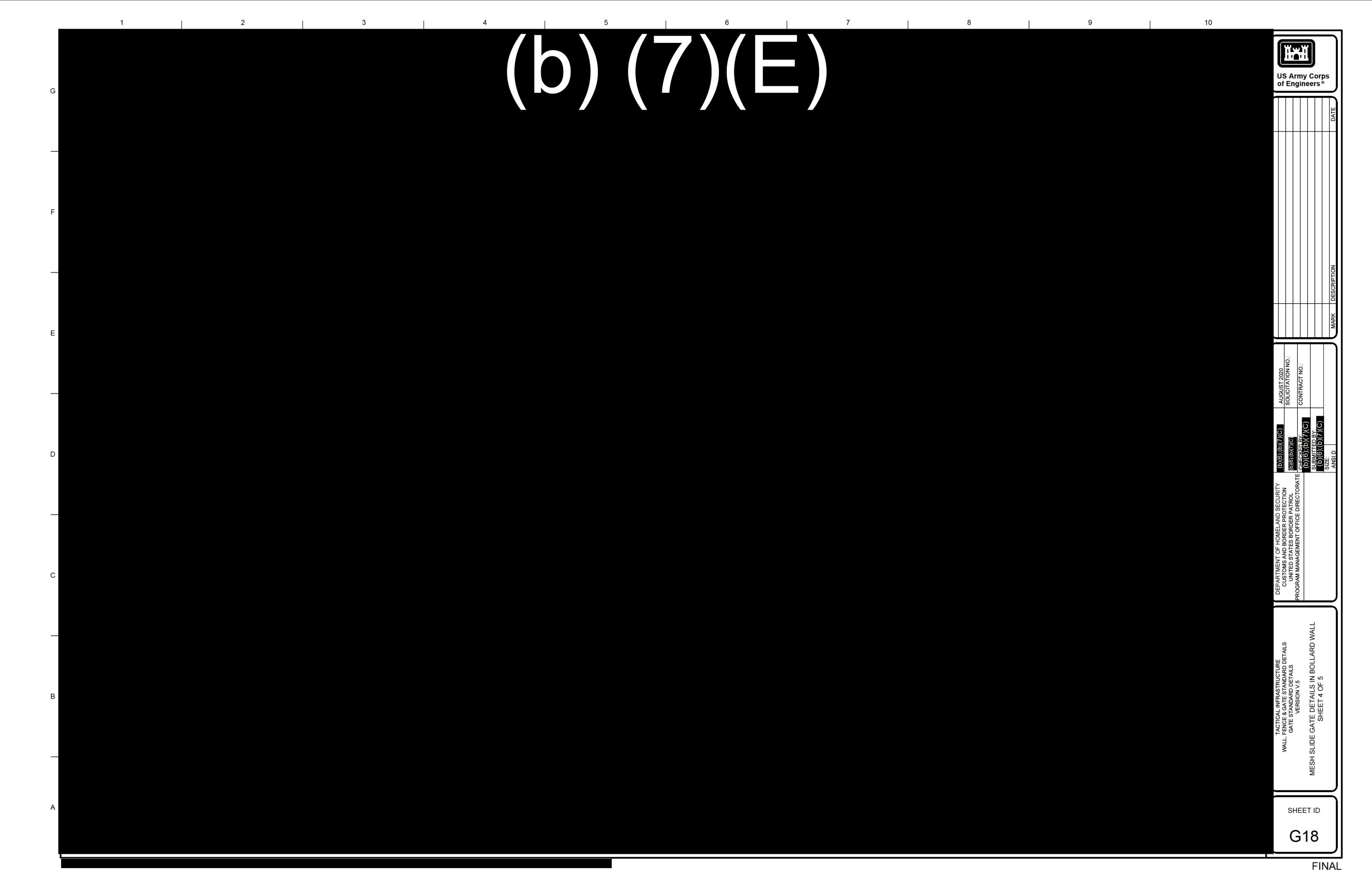
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CUSTOMS AND BORDER PROTECTION
UNITED STATES BORDER PATROL
GRAM MANAGEMENT OFFICE DIRECTORATE
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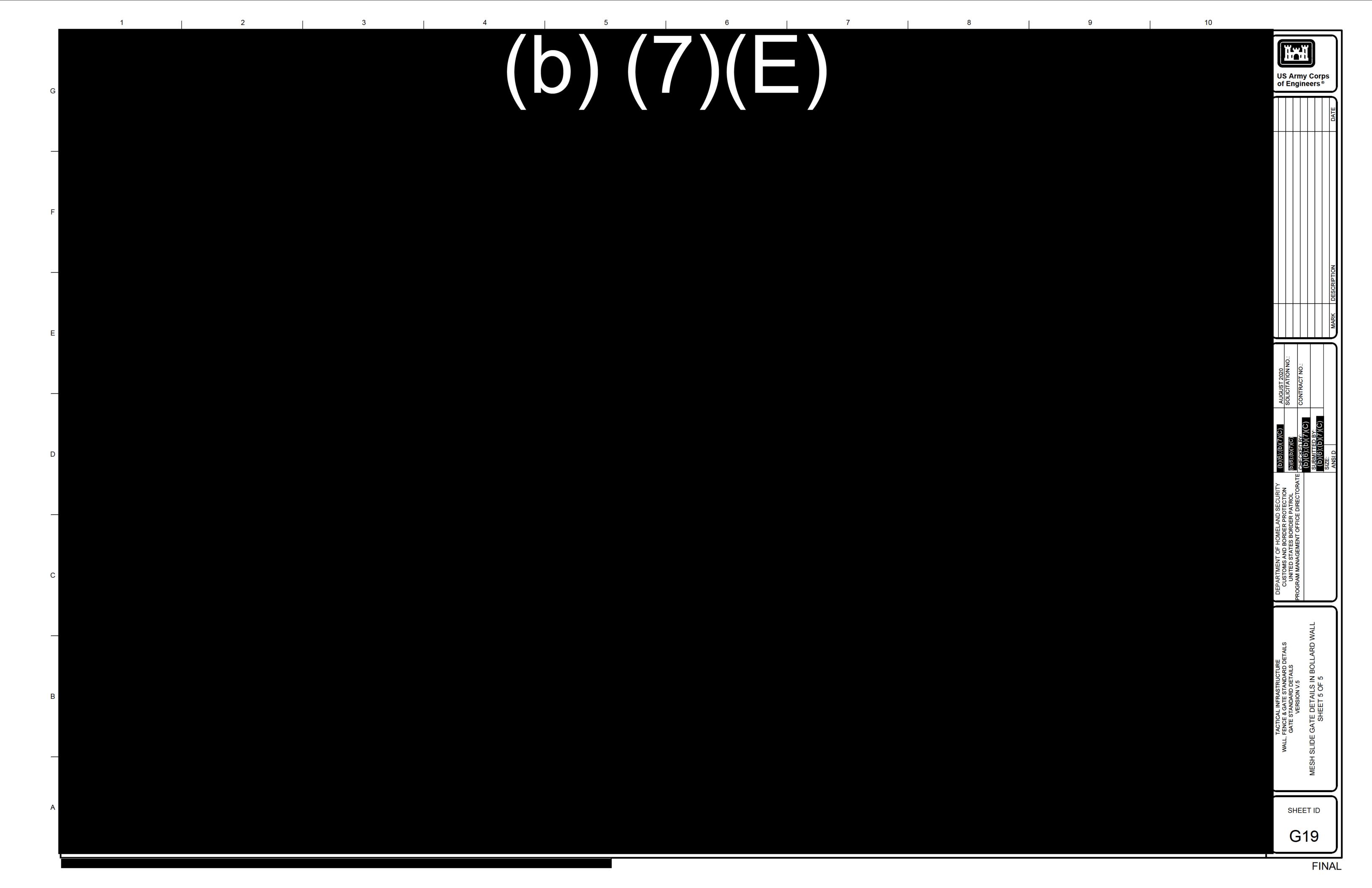
TACTICAL INFRASTRUCTURE
WALL, FENCE & GATE STANDARD DETAILS
GATE STANDARD DETAILS
VERSION V.5
SLIDE GATE DETAILS IN BOLLARD WALL
SHEET 1 OF 5

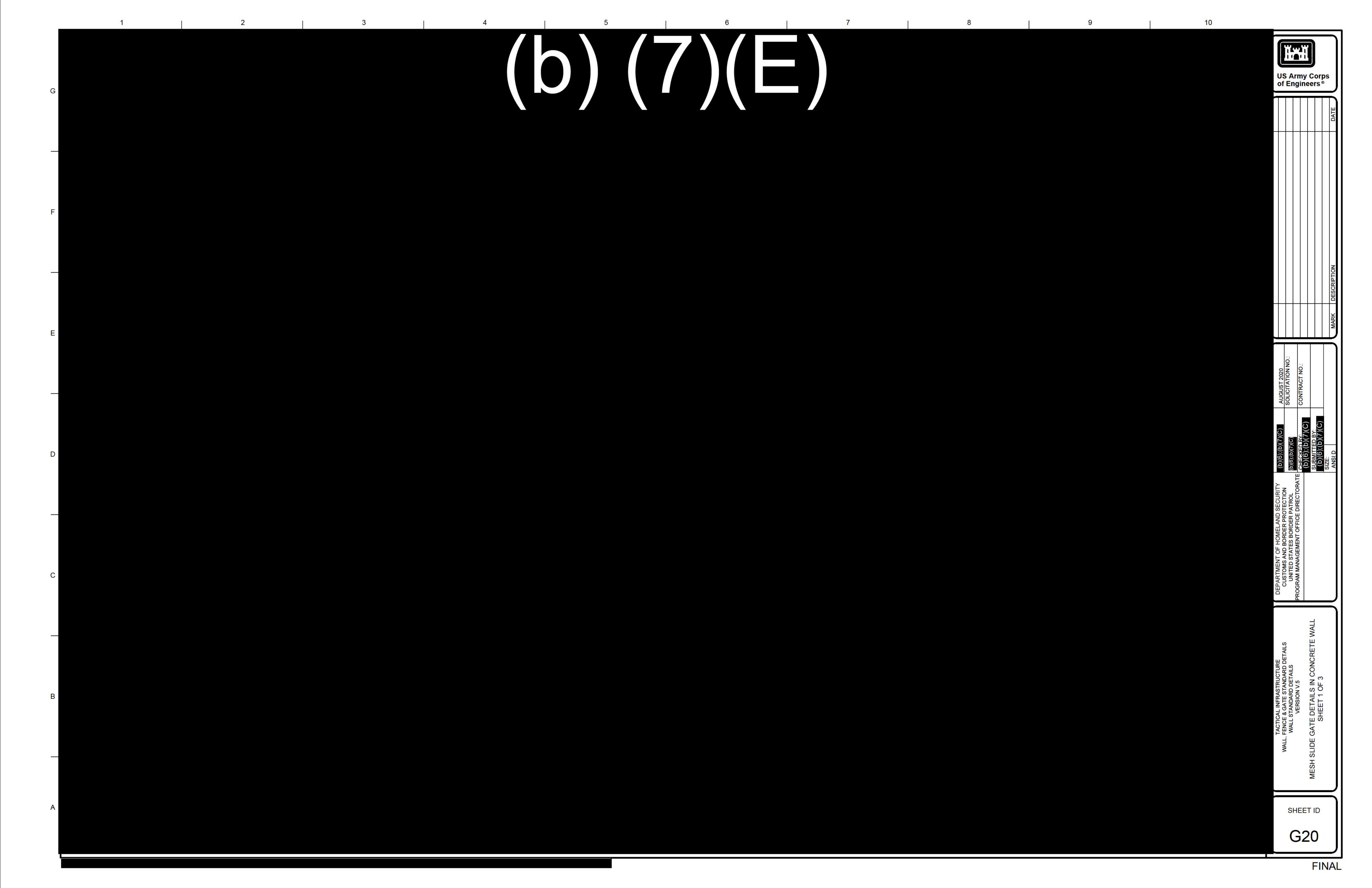
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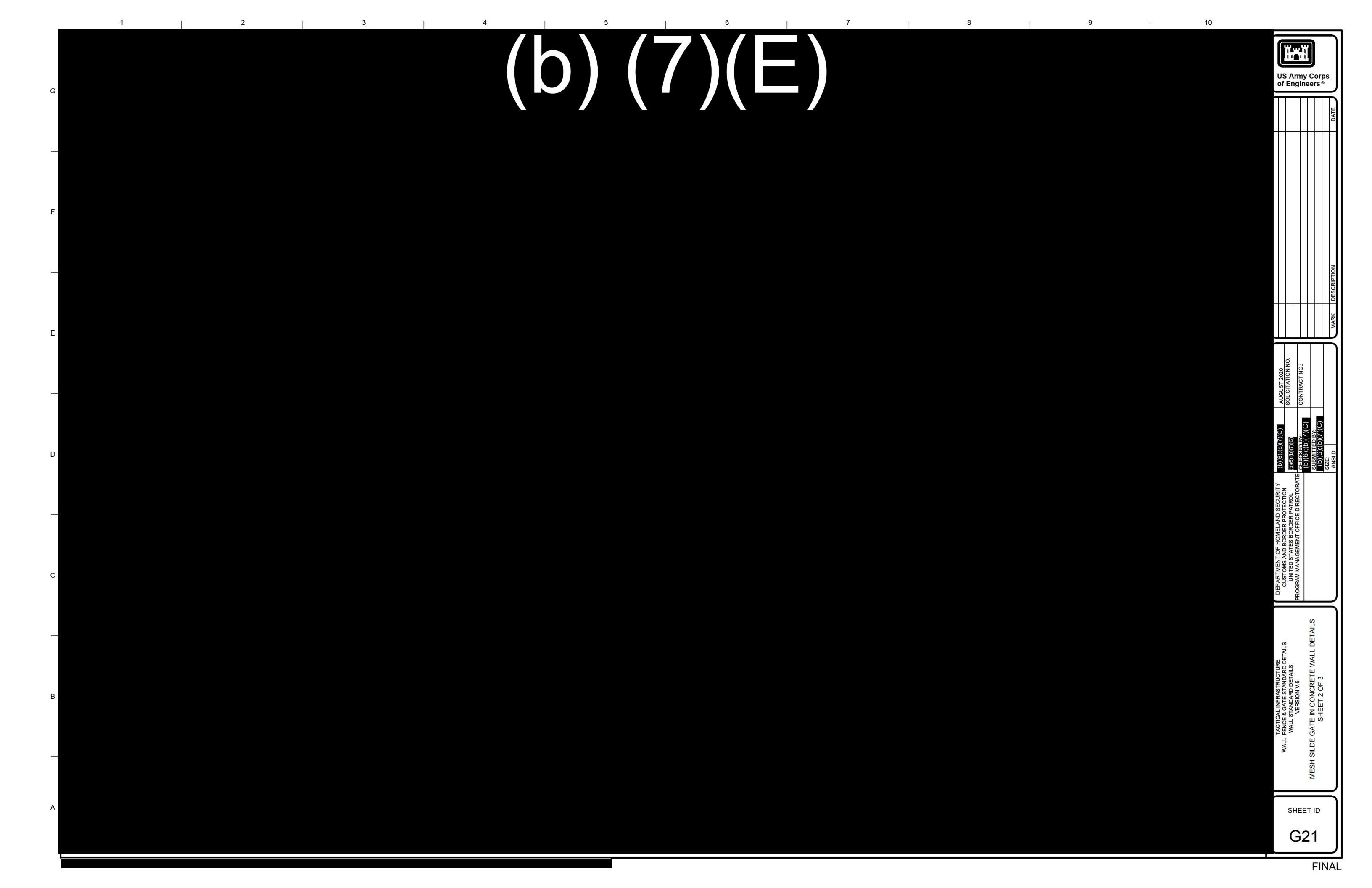


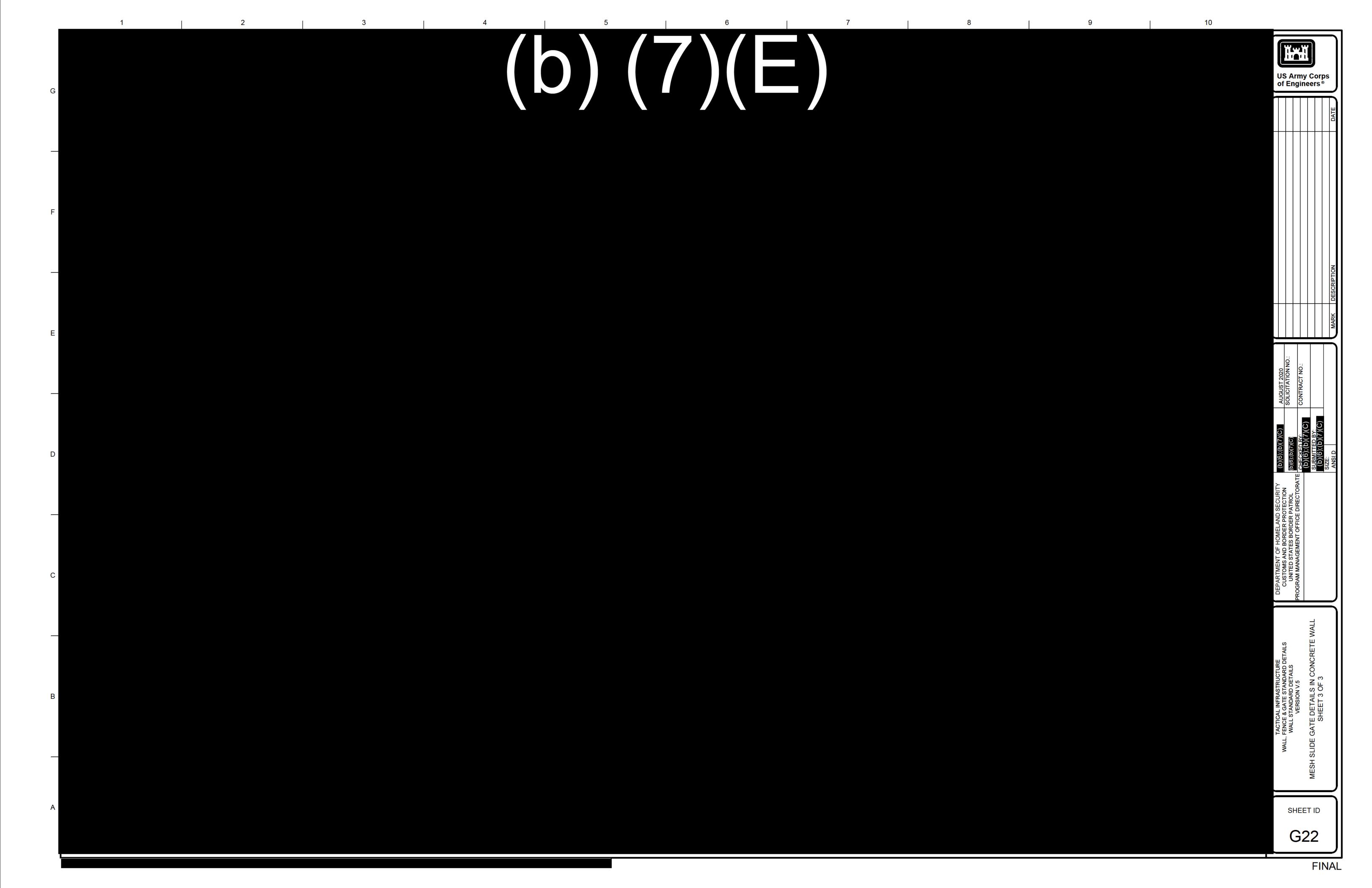












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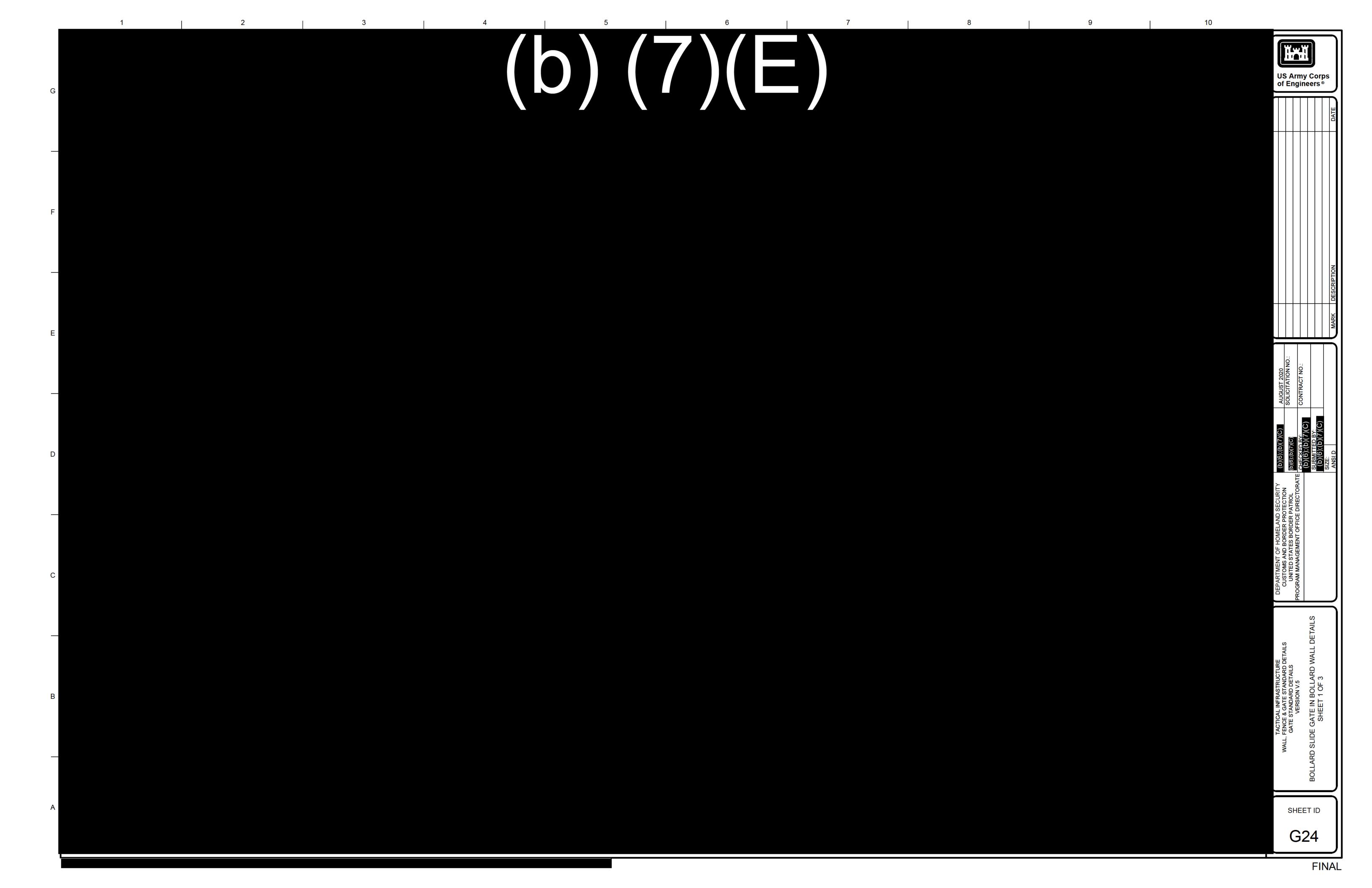
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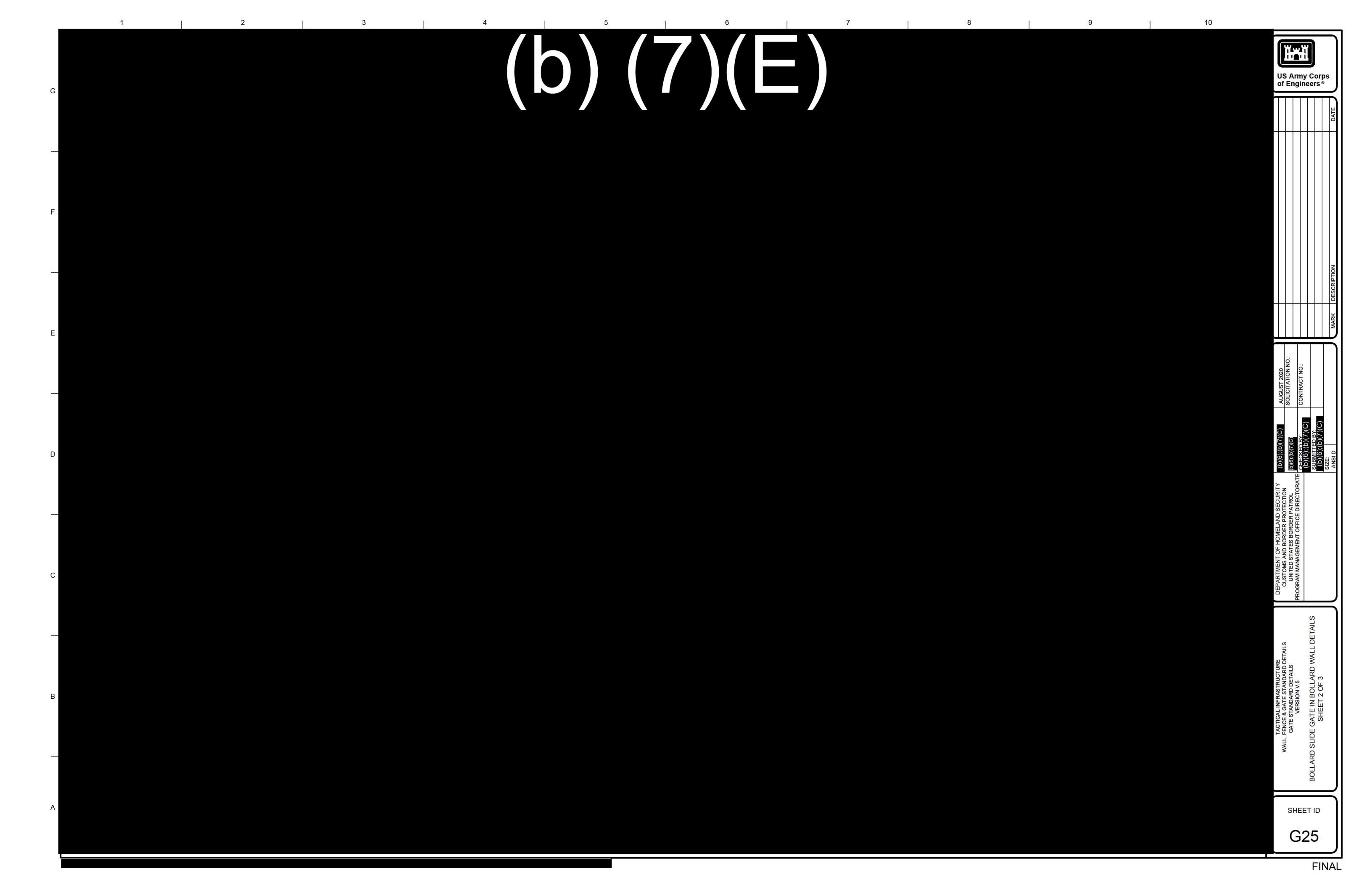
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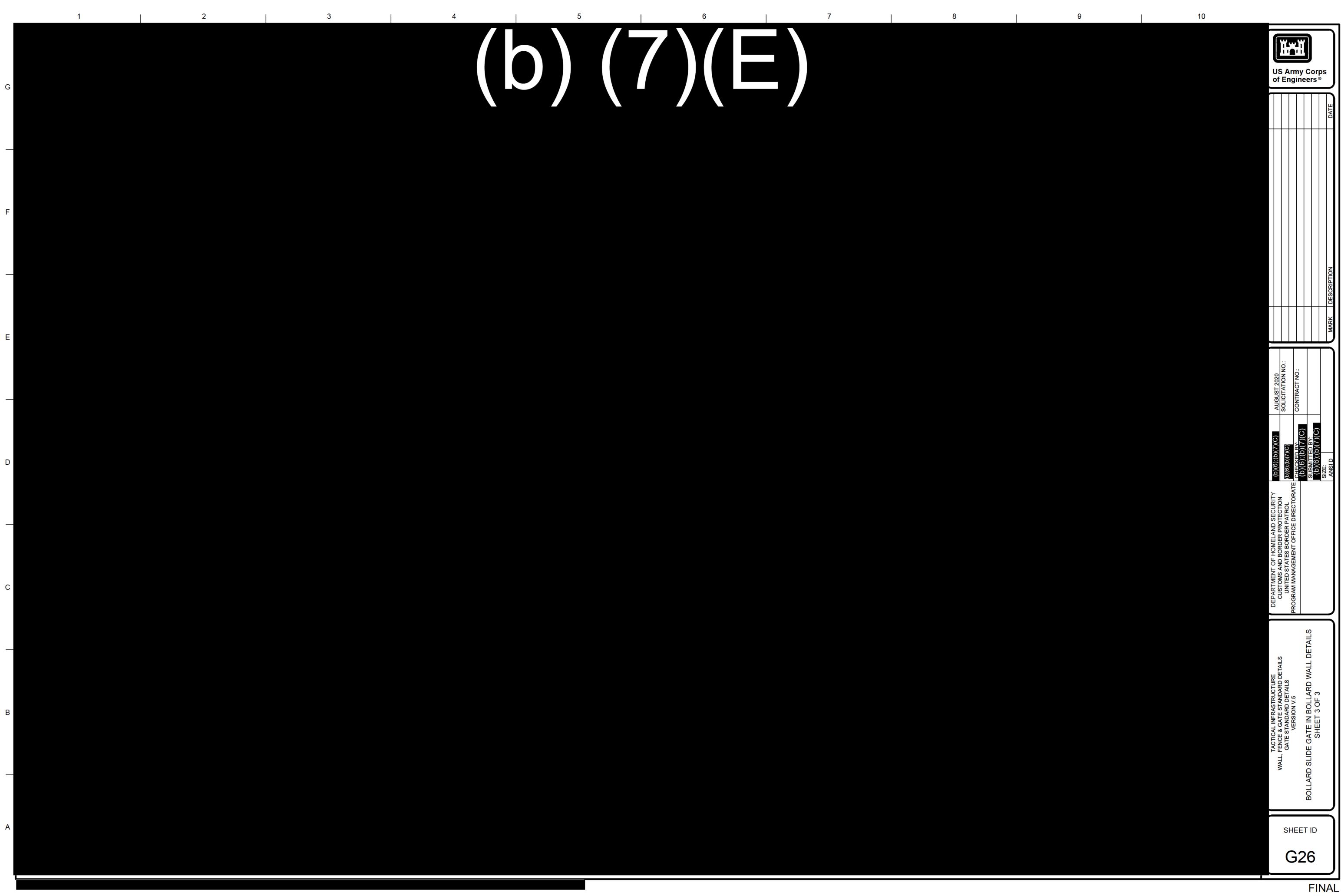
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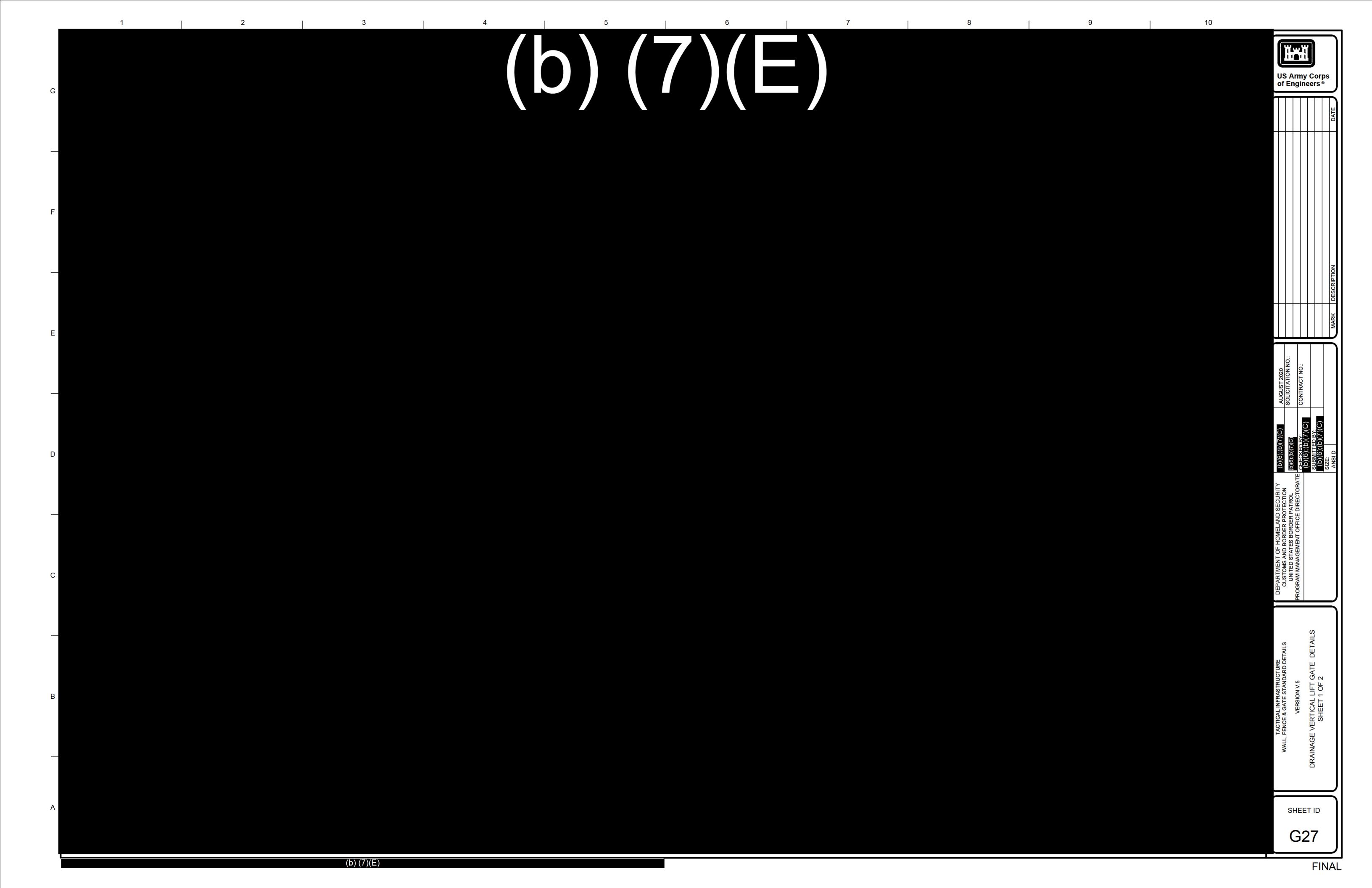
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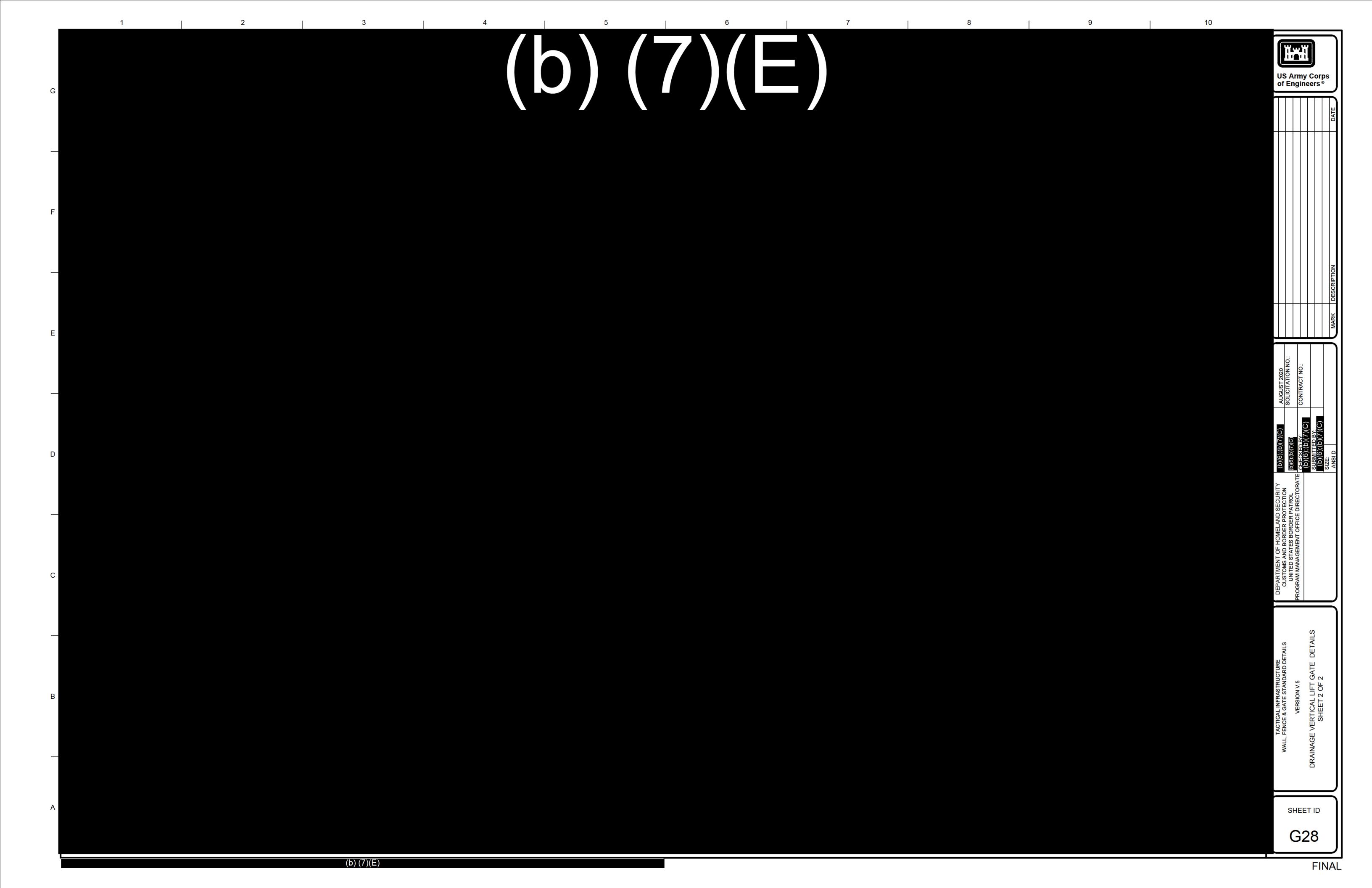
G23











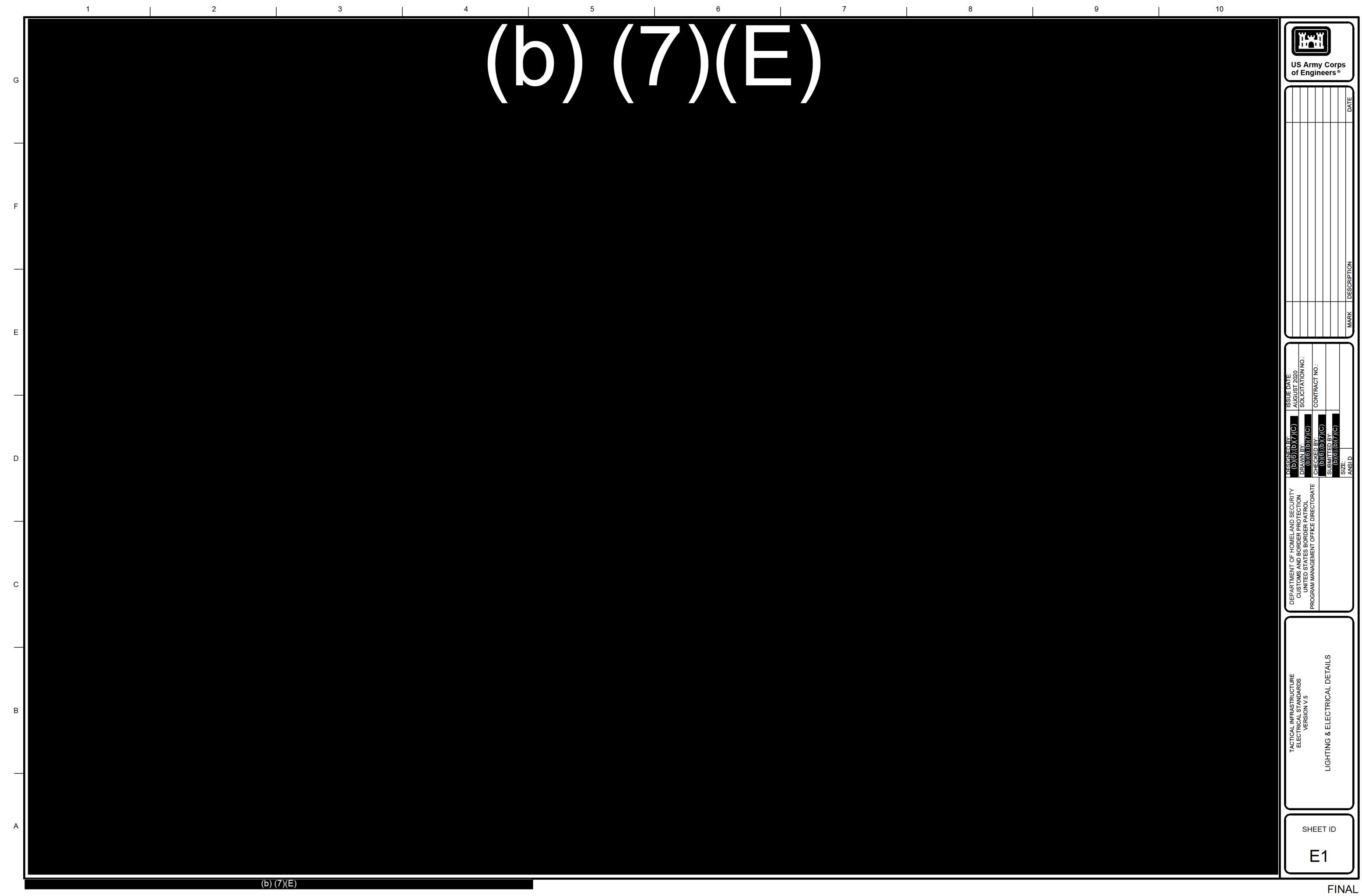
APPENDIX C

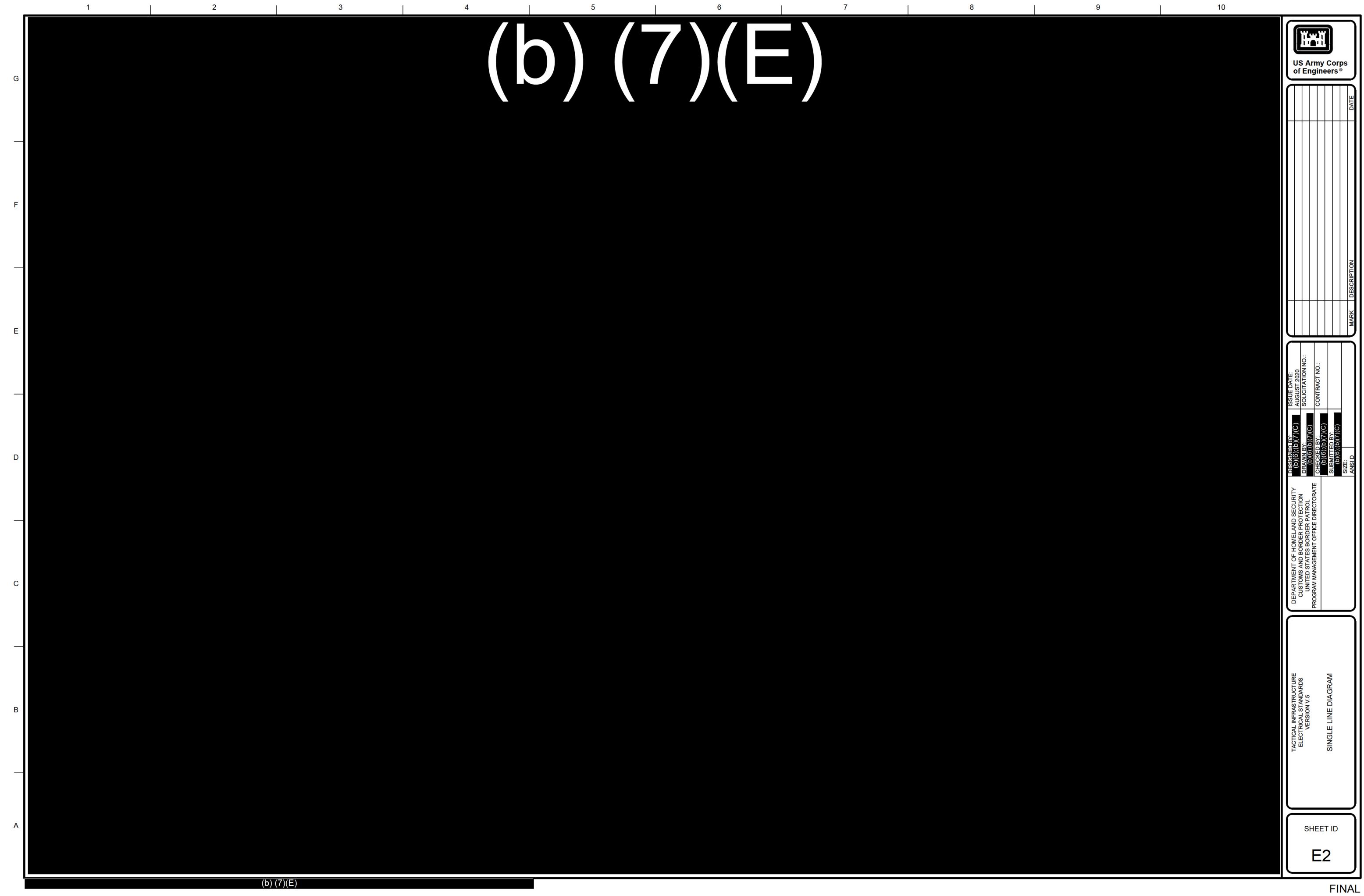
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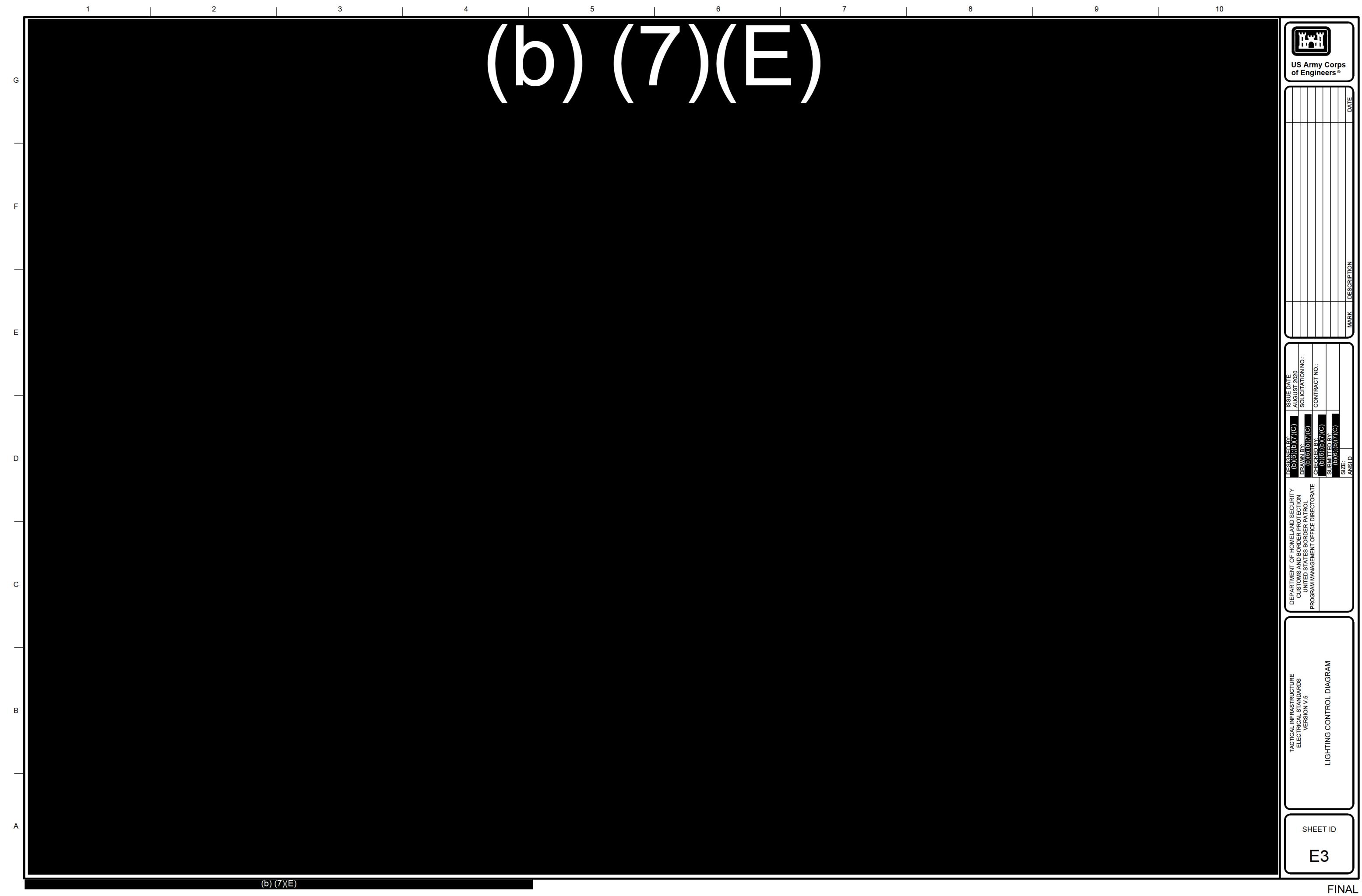
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CUSTOMS AND BORDER PROTECTION
UNITED STATES BORDER PATROL
PROGRAM MANAGEMENT OFFICE DIRECTORATE

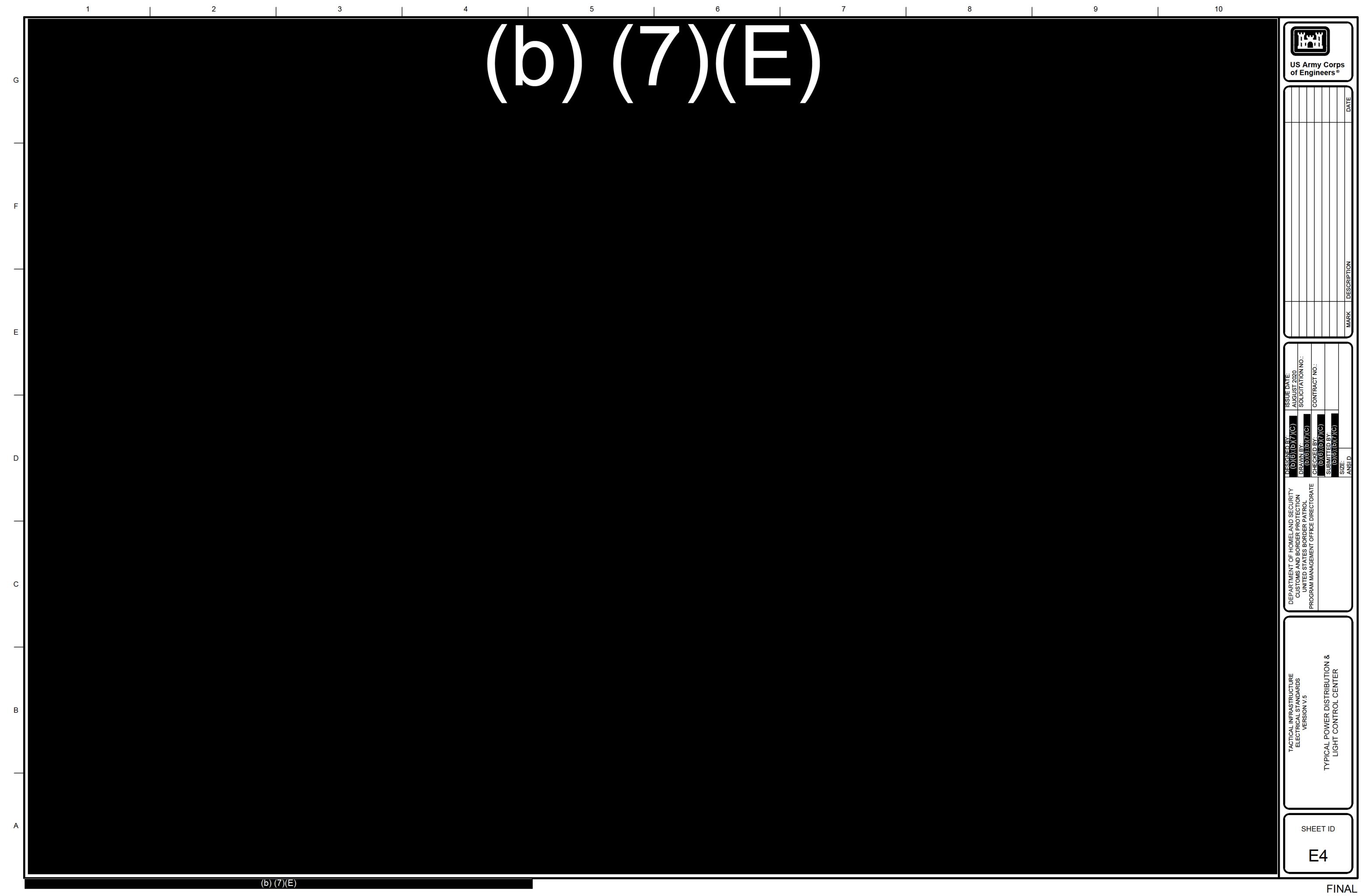
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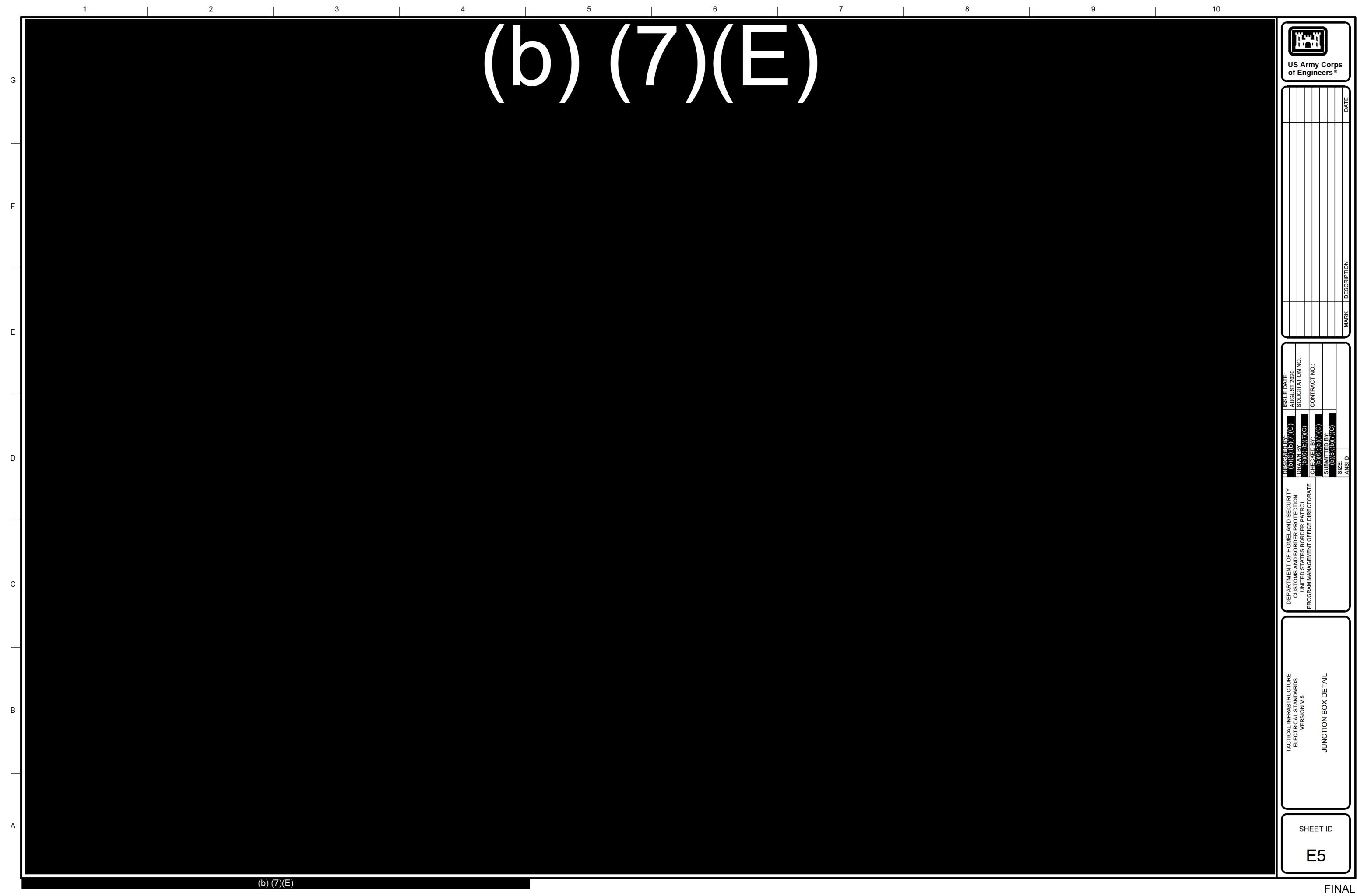
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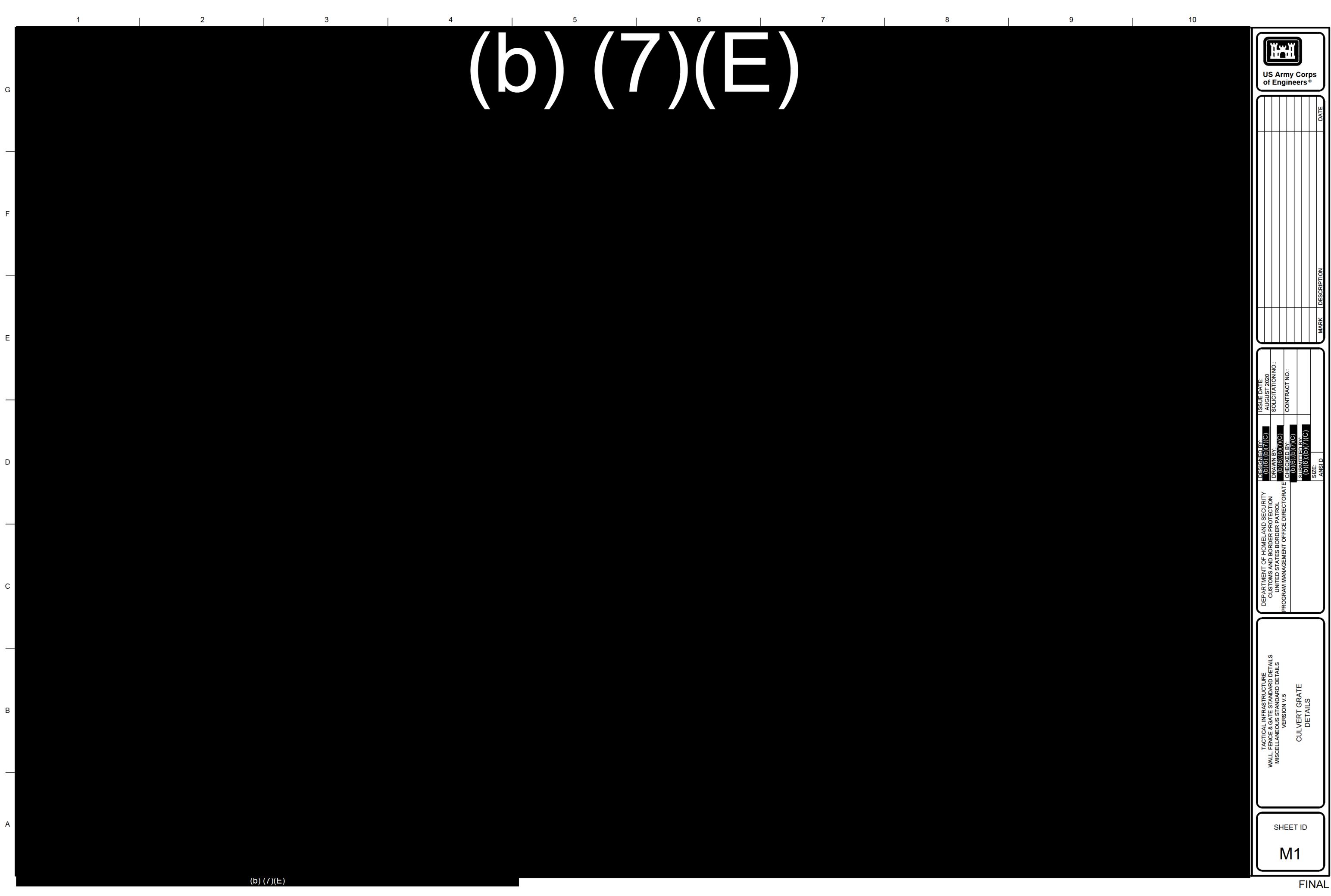
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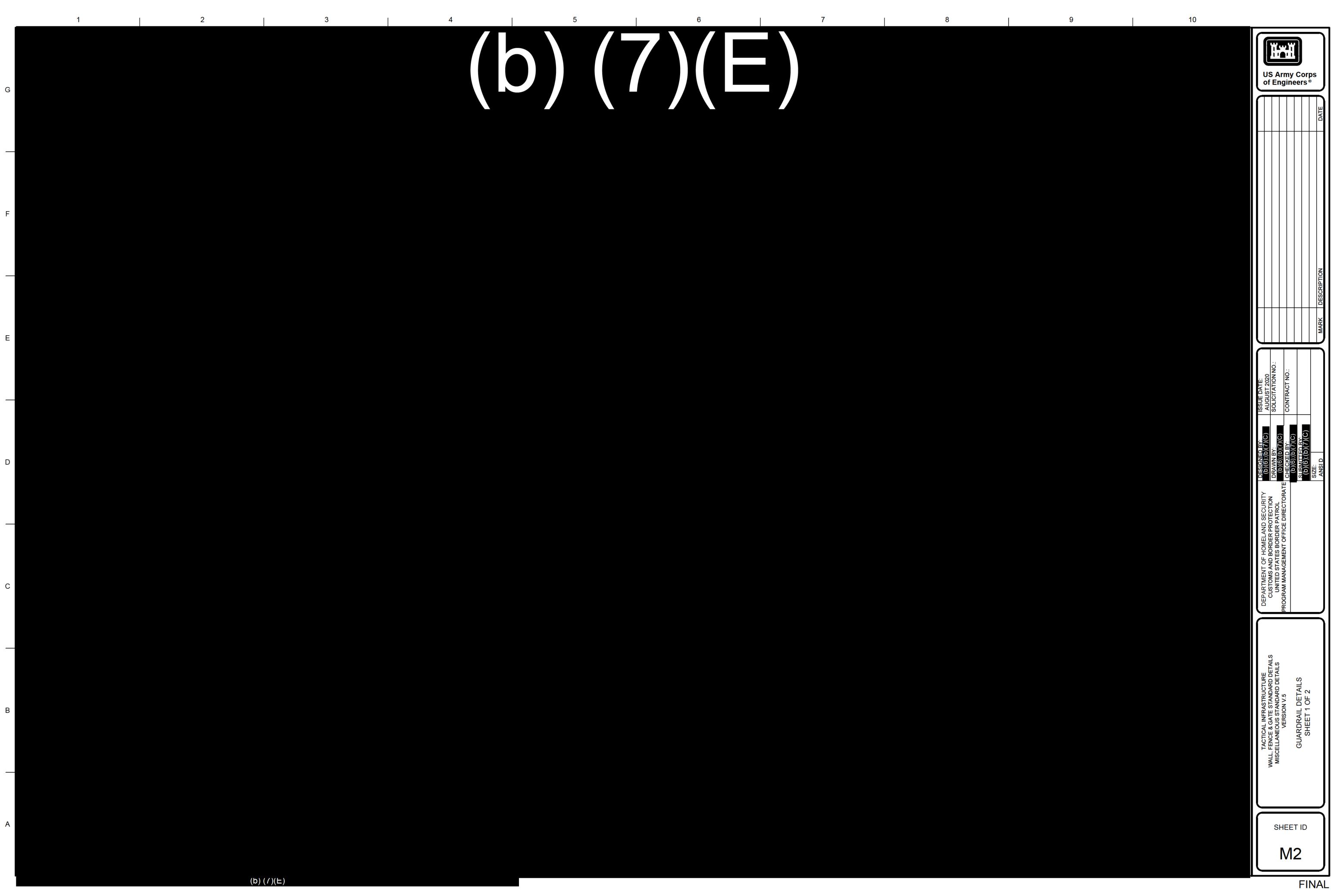
MISCELLANEOUS STANDARD DETAILS

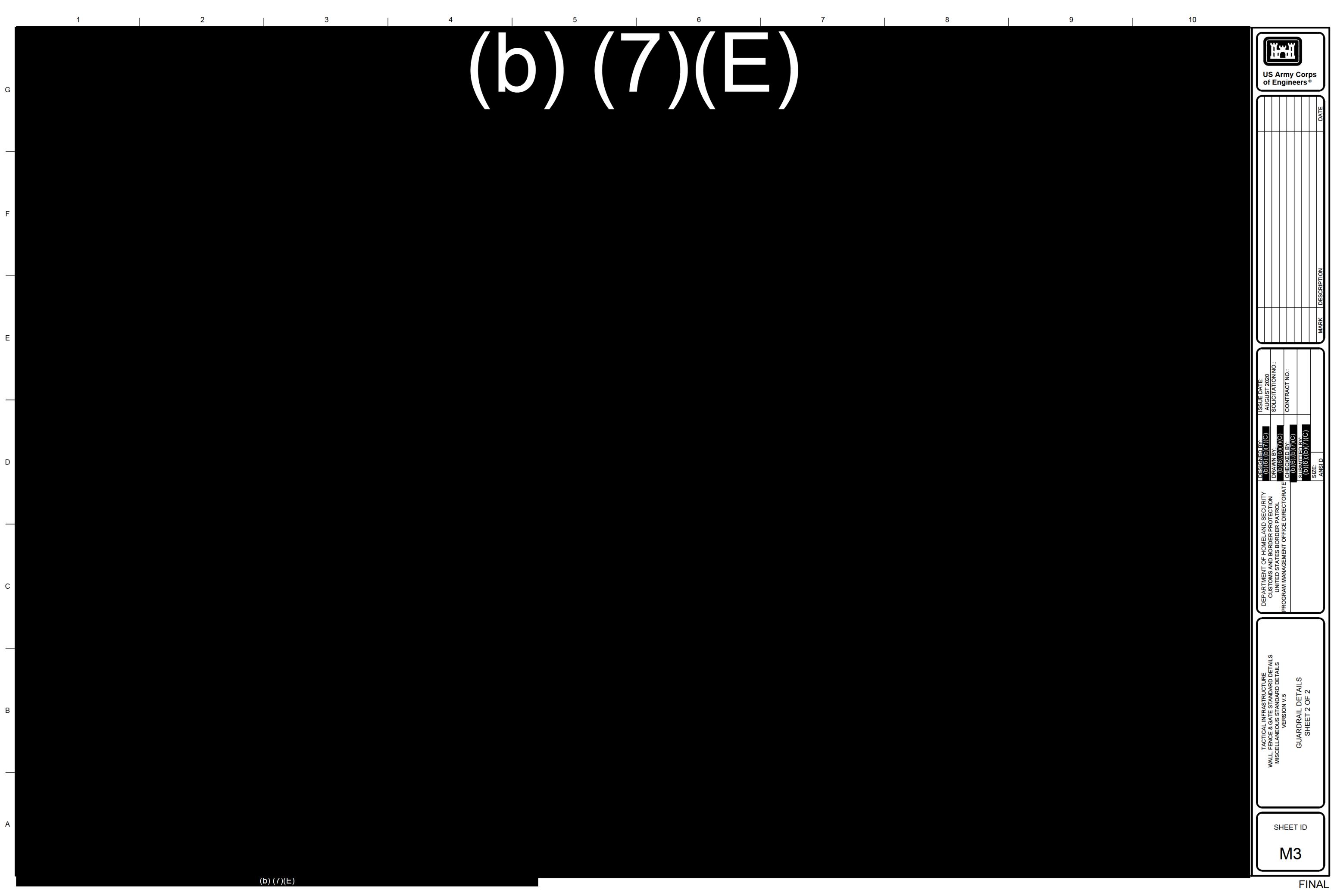
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CUSTOMS AND BORDER PROTECTION
UNITED STATES BORDER PATROL
PROGRAM MANAGEMENT OFFICE DIRECTORATE

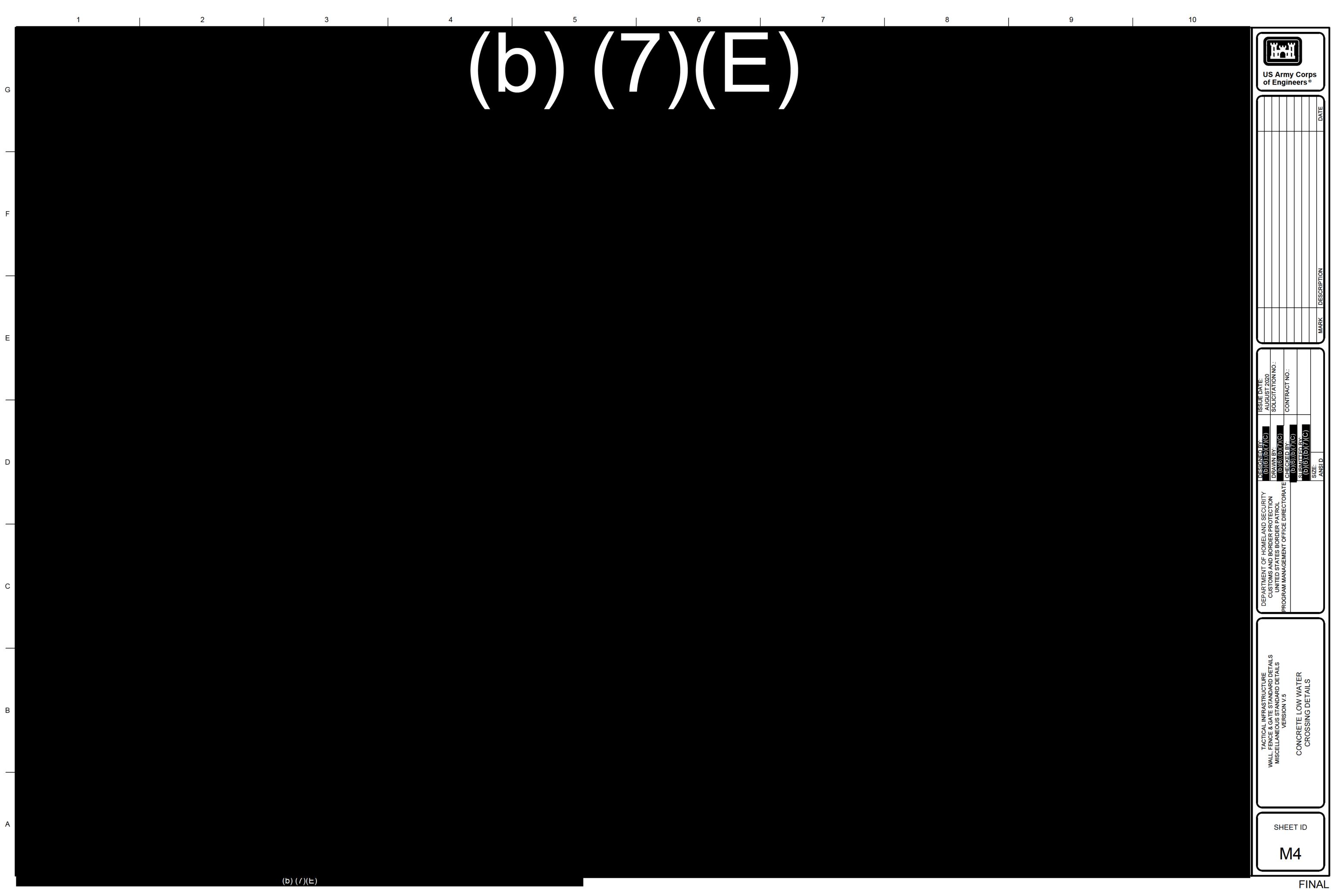
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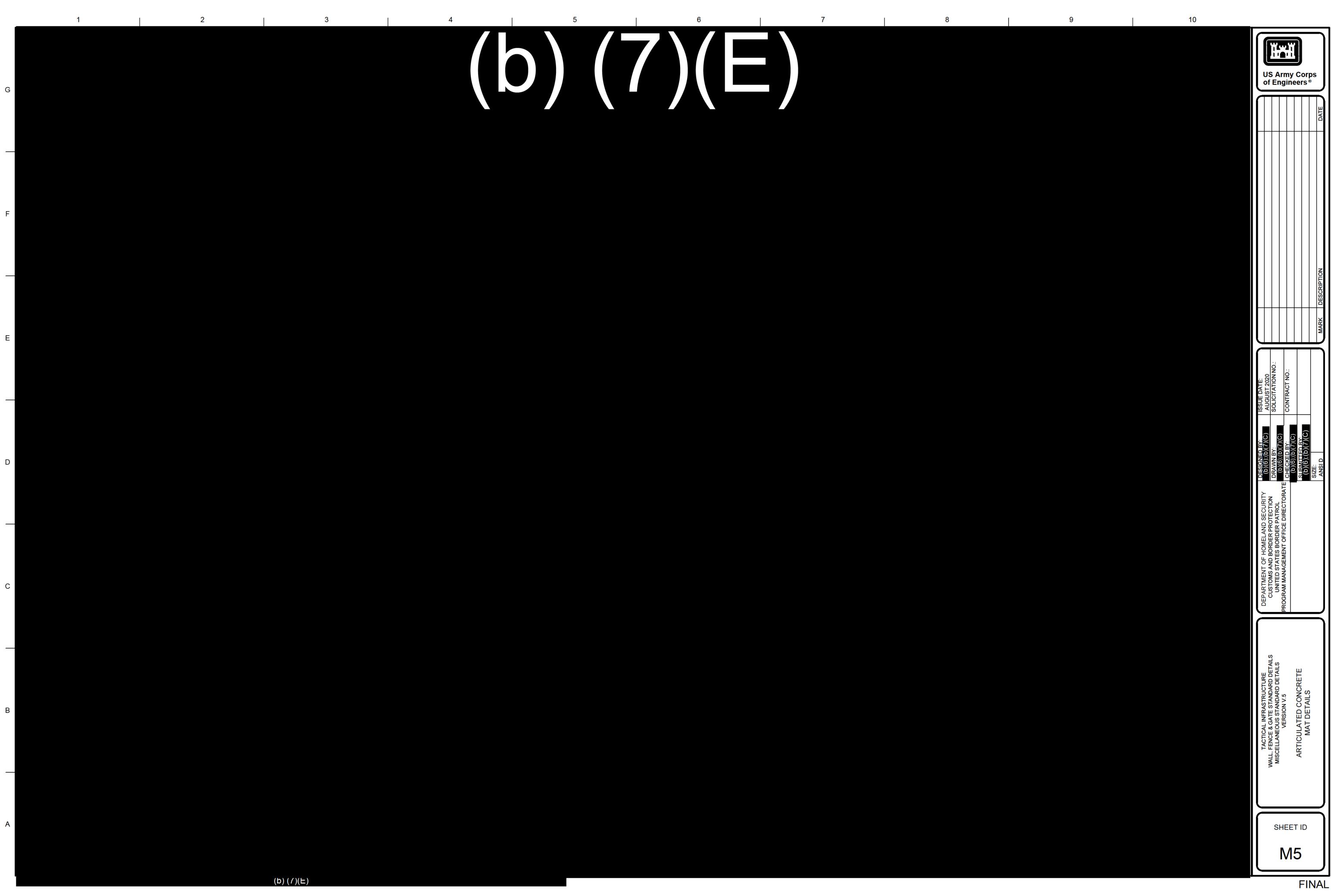
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TACTICAL INFRASTRUCTURE WALL, FENCE & GATE STANDARD DETAILS MISCELLANEOUS STANDARD DETAILS VERSION V.5 MISCELLANEOUS DETAILS

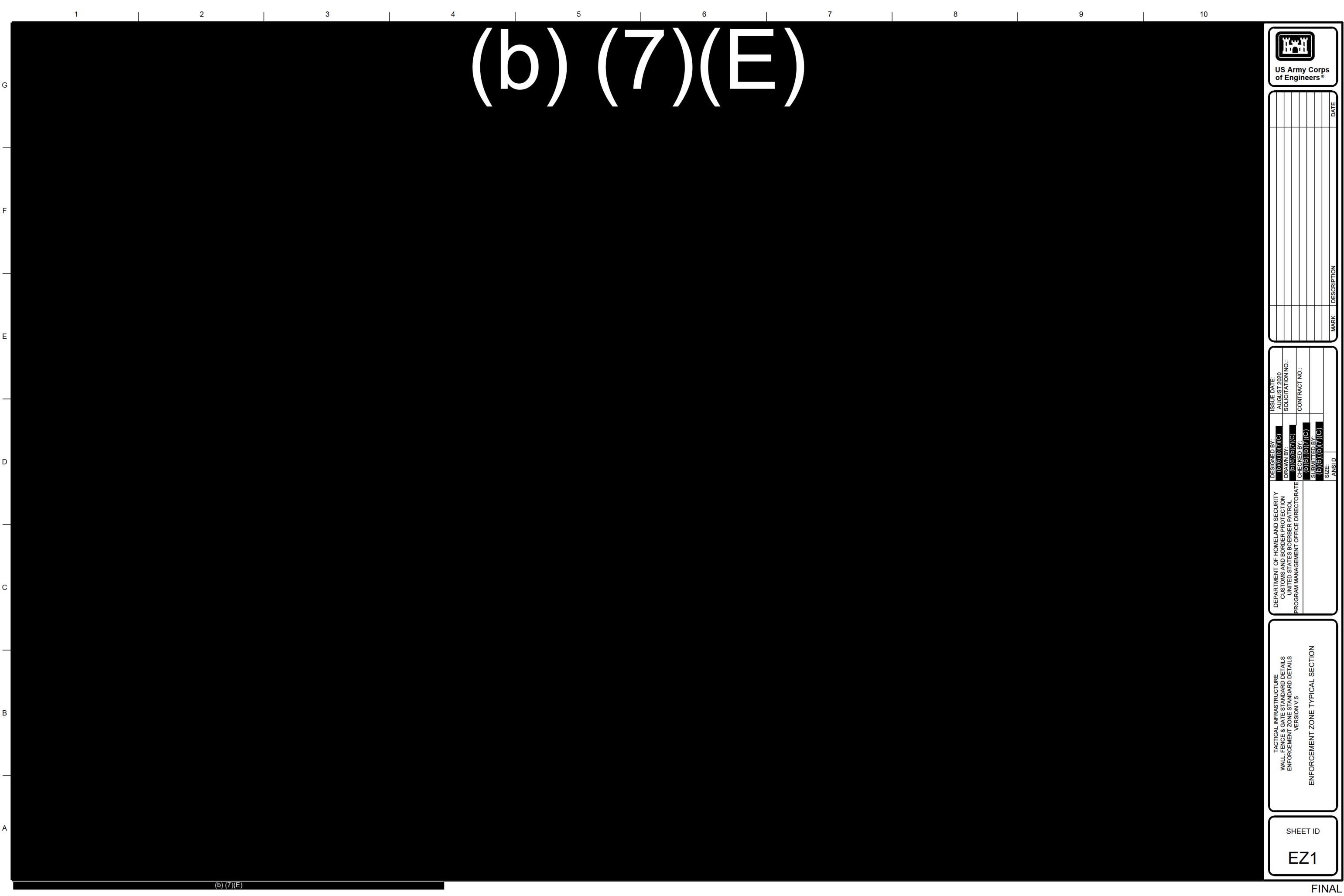
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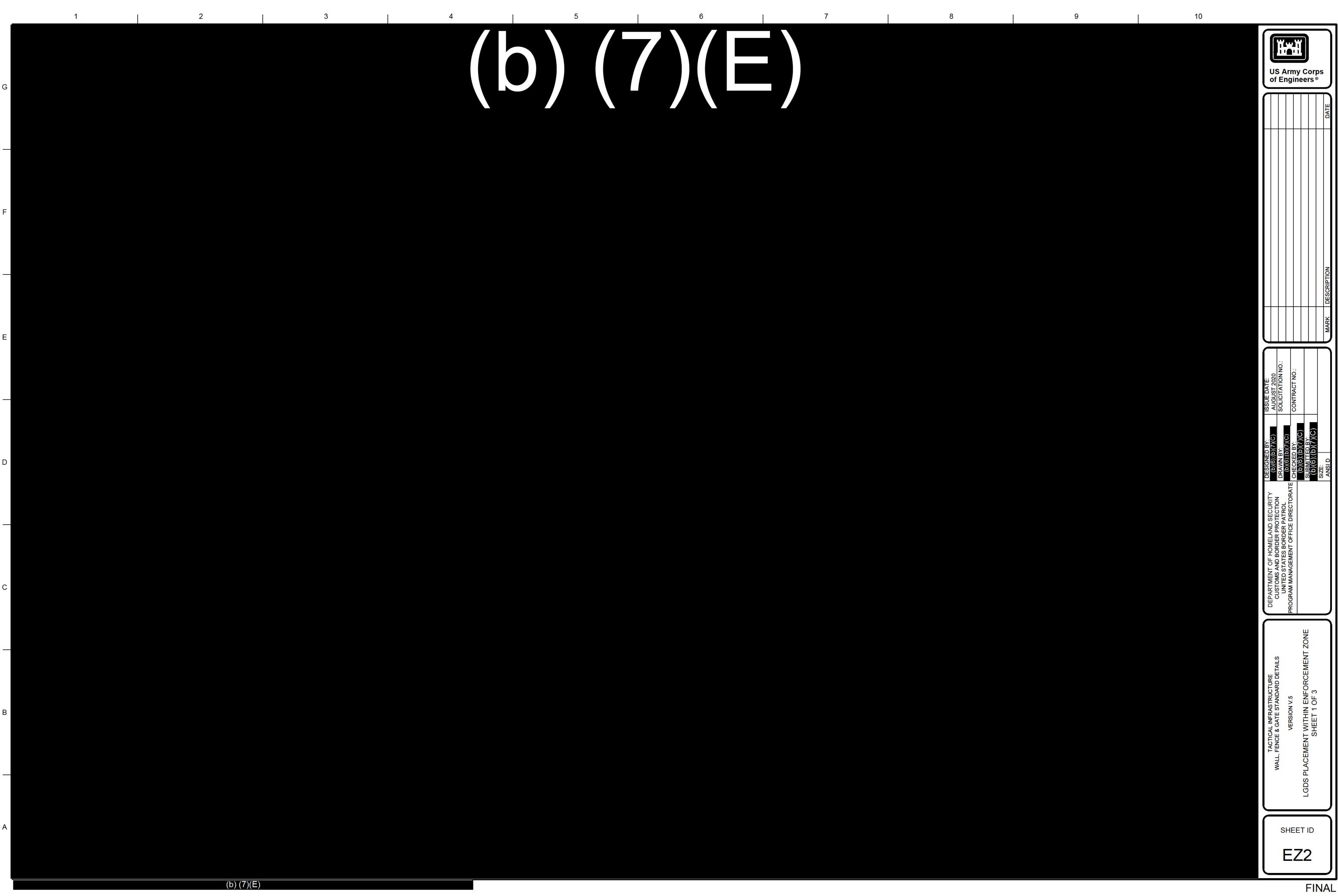
APPENDIX E ENFORCEMENT ZONES STANDARD DETAILS

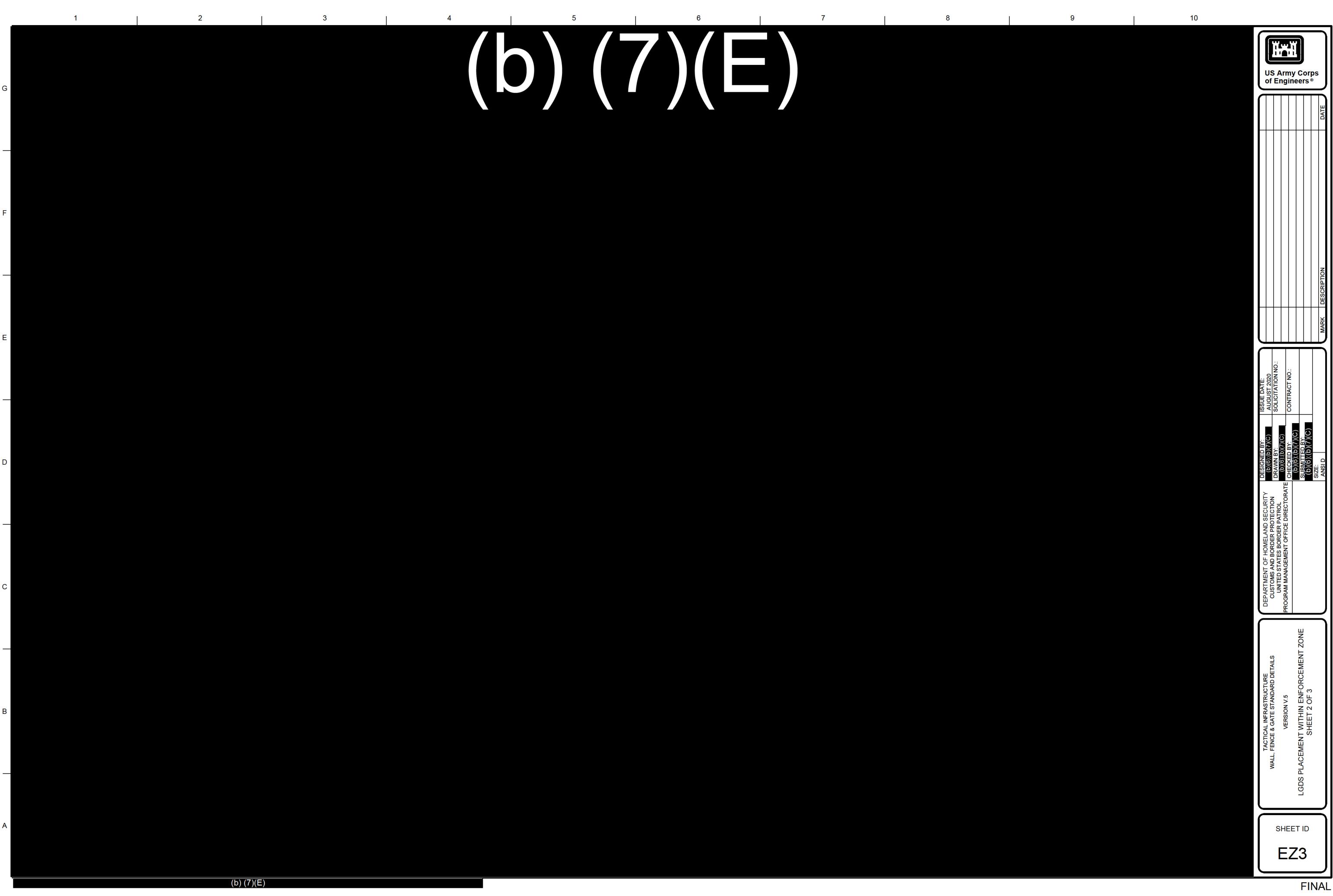
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UNITED STATES BORDER PATROL
PROGRAM MANAGEMENT OFFICE DIRECTORATE

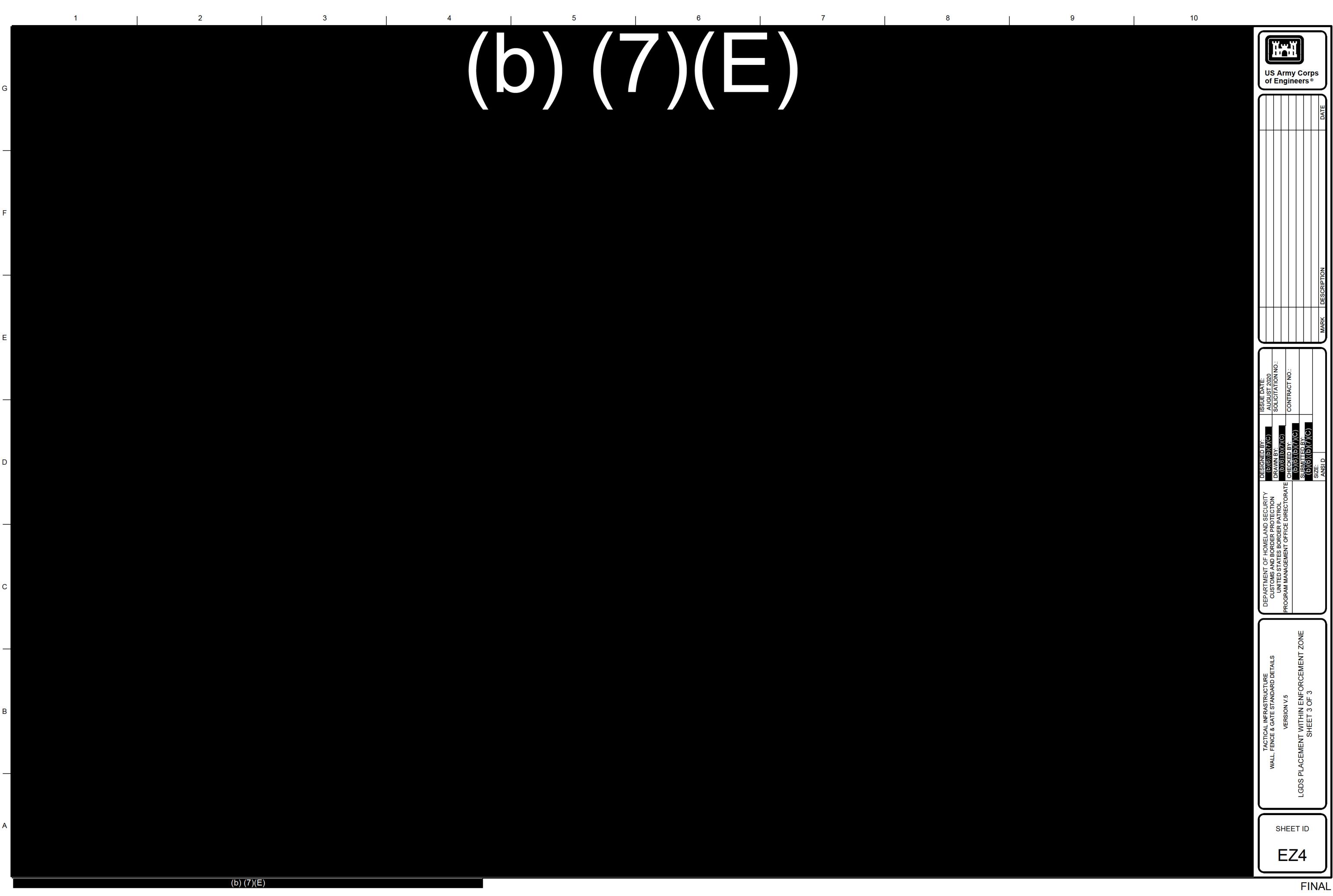
ENFORCEMENT ZONE STANDARD DETAILS

AUGUST 2020, VERSION V.5









APPENDIX F

SIGNAGE STANDARD DETAILS



VV8-3
PAVEMENT ENDS

	Α	В	С	D	E	F	G	Н	J	K
	24	.375	.625	4 C	2.5	.5	11.188	5.313	5.438	1.5
C	30	.5	.75	5 C	3	.75	13.938	6.625	6.875	1.875
	36	.625	.875	6 C	3.5	1	16.75	7.875	8.25	2.25

WARNING SIGN COLORS:

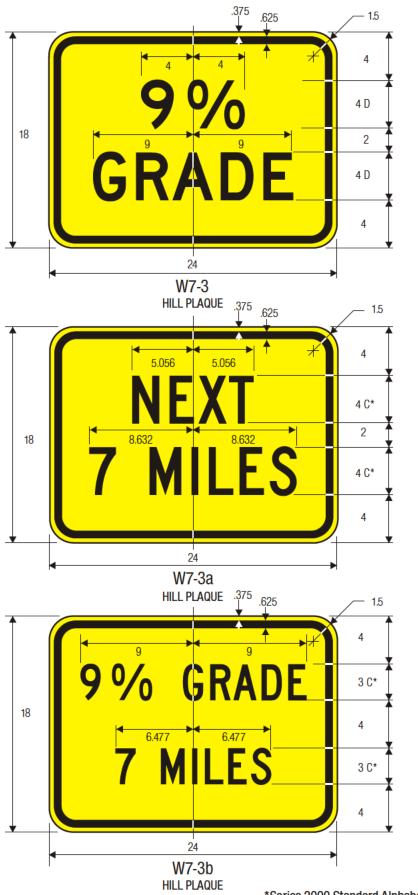
LEGEND — BLACK

BACKGROUND— YELLOW (RETROREFLECTIVE)

TTC SIGN COLORS:

LEGEND — BLACK

BACKGROUND—ORANGE (RETROREFLECTIVE)



*Series 2000 Standard Alphabets.

COLORS: LEGEND — BLACK

BACKGROUND - YELLOW (RETROREFLECTIVE)



VV5-3
ONE LANE BRIDGE

	Α	В	C	D	Е	F	G	Н	J
	24	.375	.625	4 C	2.5	10.625	10.625	7.688	1.5
	30	.5	.75	5 C	3.25	13.313	12.688	9.125	1.875
C	36	.625	.875	6 C	4	16	15.25	11.5	2.25
	48	.75	1.25	8 C	5	21.25	20.25	15.375	3

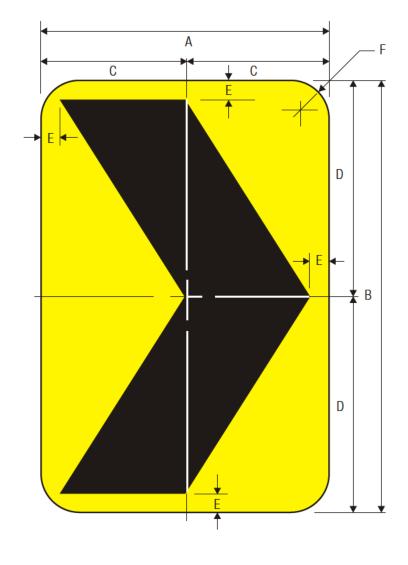
WARNING SIGN COLORS: LEGEND — BLACK

BACKGROUND— YELLOW (RETROREFLECTIVE)

TTC SIGN COLORS:

LEGEND - BLACK

BACKGROUND-ORANGE (RETROREFLECTIVE)



W1-8L

W1-8R CHEVRON ALIGNMENT

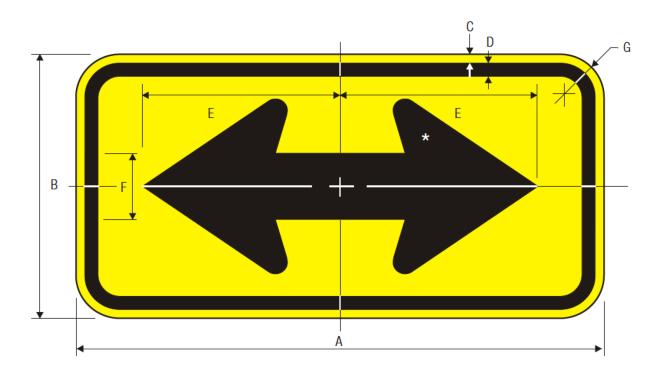
	Α	В	С	D	E	F
	12	18	6	9	.5	1.5
C	18	24	9	12	.75	1.5
	24	30	12	15	.875	1.5
	30	36	15	18	1	1.875
	36	48	18	24	1.125	2.25

WARNING SIGN COLORS:
LEGEND - BLACK
BACKGROUND- YELLOW (RETROREFLECTIVE)

TTC SIGN COLORS:

LEGEND - BLACK

BACKGROUND- ORANGE (RETROREFLECTIVE)

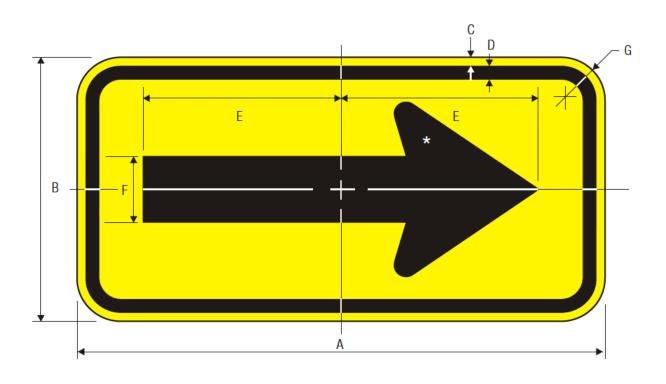


W1-7
TWO DIRECTION LARGE ARROW

*See standard arrow details

	Α	В	С	D	Е	F	G
	24	12	.375	.625	10.375	3.25	1.5
	36	18	.375	.625	15.625	5	1.5
C	48	24	.5	.75	20.5	6.5	1.875
	60	30	.625	.875	25.375	8	2.25

WARNING SIGN COLORS:
LEGEND - BLACK
BACKGROUND- YELLOW (RETROREFLECTIVE)



W1-6R
ONE DIRECTION LARGE ARROW

W1-6L

*See standard arrow details

	Α	В	С	D	E	F	G
	24	12	.375	.625	9.625	3.25	1.5
	36	18	.375	.625	14.625	5	1.5
C	48	24	.5	.75	19.5	6.5	1.875
	60	30	.625	.875	24.375	8	2.25

WARNING SIGN COLORS:

SYMBOL - BLACK

BACKGROUND- YELLOW (RETROREFLECTIVE)

TTC SIGN COLORS:

SYMBOL - BLACK

BACKGROUND- ORANGE (RETROREFLECTIVE)

W1-5R W1-5L *See standard arrow details WINDING ROAD

	Α	В	С	D	E	F	G	Н	J	K	L	М
	18	.375	.625	1	9.625	.375	2.5	.625	3	1	4	4
	24	.375	.625	1.25	12.75	.5	3.25	.875	4.125	1.25	5.188	5.25
	30	.5	.75	1.563	15.938	.625	4.063	1.094	5.156	1.563	6.484	9.563
_	36	.625	.875	1.875	19.125	.75	4.875	1.313	6.188	1.875	7.781	7.875
	48	.75	1.25	2.5	25.5	1	6.5	1.75	8.25	2.5	10.375	10.5

N	Р	Q	R	S
8.625	.25	2	1.25	1.5
11.375	.25	2.5	1.598	1.5
14.219	.313	3.125	2	1.875
17.063	.375	3.75	2.406	2.25
22.75	.5	5	3.188	3

COLORS: LEGEND — BLACK BACKGROUND— YELLOW (RETROREFLECTIVE)

C

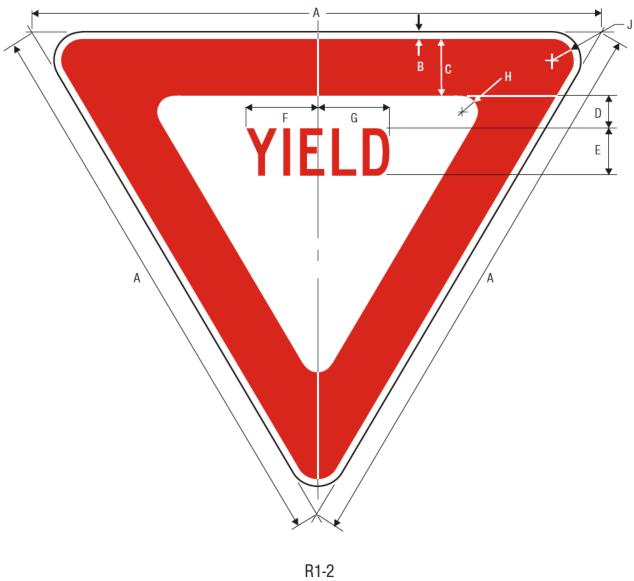


* Optically space numerals about centerline.

А	В	С	D	Е	F	G	Н	J	K	L
18	24	0.375	0.625	3	3 E	2	8 E	7.052	5.491	1.5
24	30	0.375	0.625	4	4 E	2	10 E	9.403	7.321	1.5
30	36	0.5	0.75	4.5	5 E	2.5	12 E	11.754	9.151	1.875
36	48	0.625	0.875	6	6 E	5	14 E	14.105	10.981	2.25
48	60	0.75	1.25	8	8 E	6	16 E	18.806	14.642	3

COLORS: LEGEND, BORDER — BLACK

BACKGROUND – WHITE (RETROREFLECTIVE)

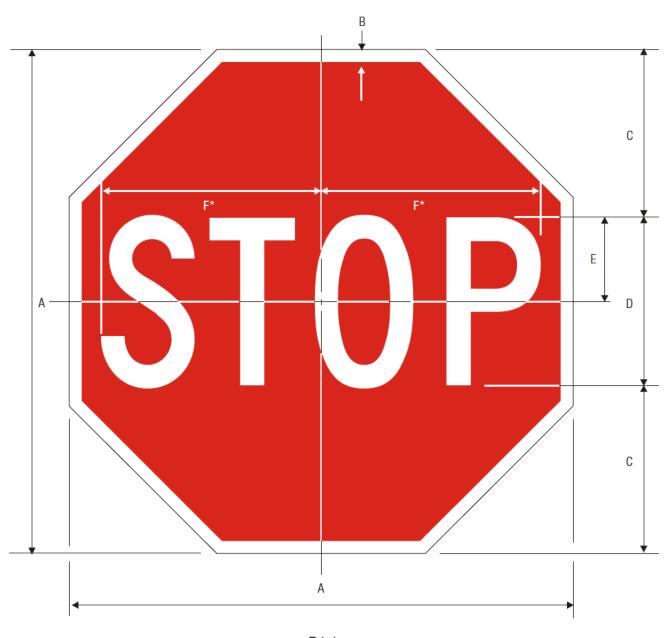


R	1	-	2
۷I	F	ı	n

	Α	В	С	D	Е	F	G	Н	J
	18	.375	2	1	1.5 C	2.375	2.188	.625	1.5
	24	.375	3	1.375	2 C	3.25	3	.875	1.5
	30	.625	4	1.75	2.5 C	3.938	3.625	.875	1.5
;	36	.75	5	2	3 C	4.688	4.375	1.25	2
	48	1	6	2.75	4 C	6.25	5.875	2	3
	60	1.5	8	3.5	5 C	7.875	7.25	2.5	4

C

COLORS: LEGEND - RED (RETROREFLECTIVE) BACKGROUND - WHITE (RETROREFLECTIVE)

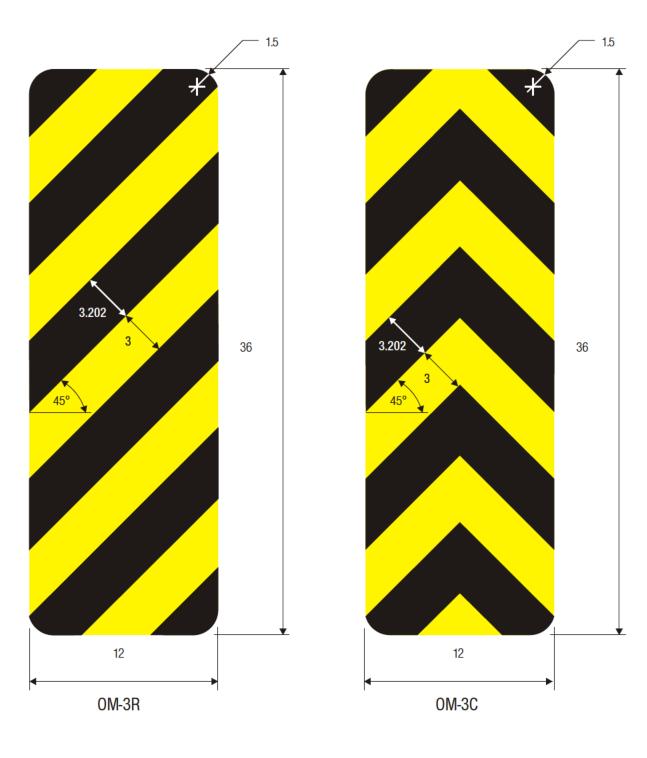


R1-1 STOP

*Reduce spacing 40%

C

Α	В	С	D	Е	F
18	.375	6	6 C	3	7.75
24	.625	8	8 C	4	10
30	.75	10	10 C	5	12.5
36	.875	12	12 C	6	15
48	1.25	16	16 C	8	20

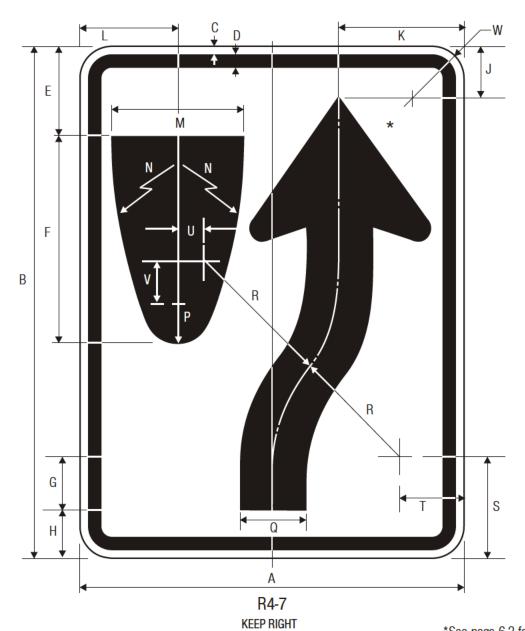




OM-3L

COLORS: STRIPES

STRIPES -BLACK BACKGROUND-YELLOW (RETROREFLECTIVE)



*See page 6-2 for arrow design.

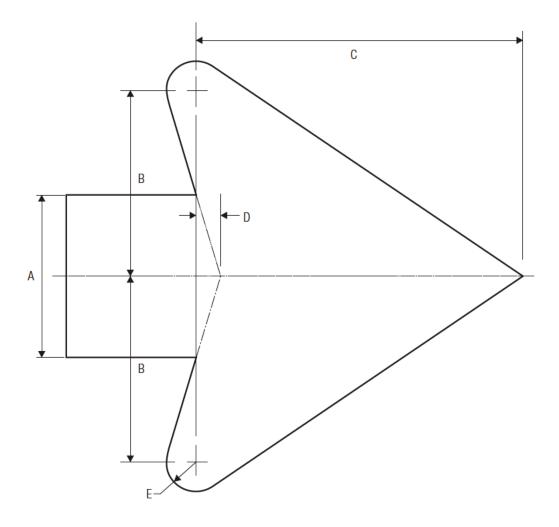
	Α	В	С	D	Е	F	G	Н	J	K	L	M
	12	18	.375	.438	4	5.5	1.1	3.28	3.28	3.86	3.526	3.472
	18	24	.375	.625	3.375	9.375	1.875	2.25	1.375	5.5	4.688	6
C	24	30	.375	.625	4.5	12.5	2.5	3	1.875	7.375	6.25	8
	36	48	.625	.875	6.75	18.75	3.75	4.5	2.813	11.125	9.375	12
	48	60	.75	1.25	9	25	5	6	3.75	14.813	12.5	16

N	Р	Q	R	S	T	U	V	W
13	.831	1.75	4.212	4.38	1.826	.375	.5	1.5
22.5	1.5	3	6.75	4.125	2.25	1.063	.438	1.5
30	2	4	9	5.5	3	1.375	2.813	1.5
45	3	6	13.5	8.25	4.5	2	2.75	2.25
60	4	8	18	11	6	2.688	5	3

LEGEND — BLACK BACKGROUND— WHITE (RETROREFLECTIVE)

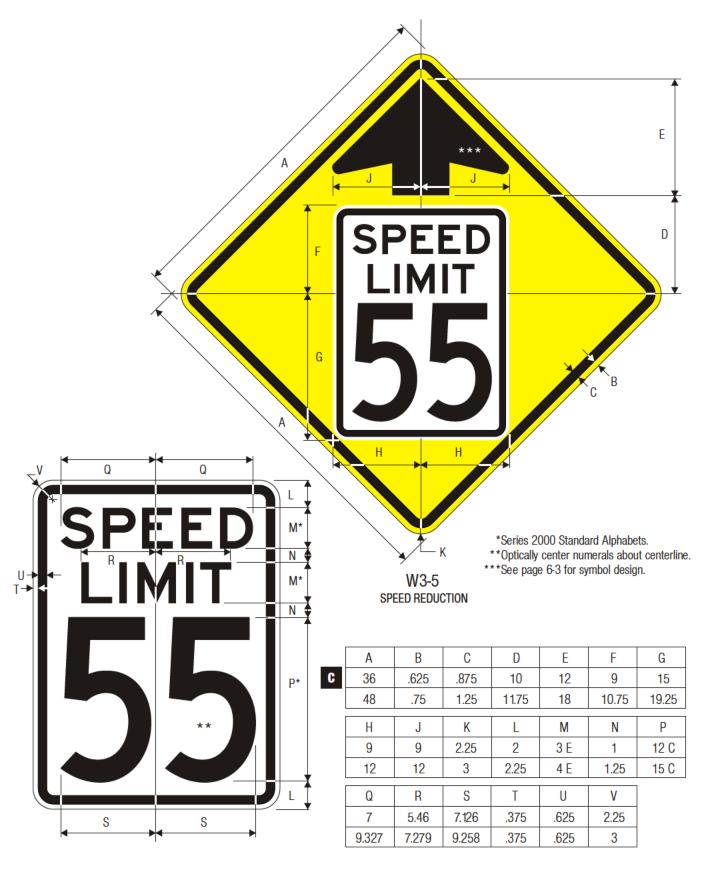
1-67

STANDARD ARROW DETAILS



Α	В	С	D	E	
2	2.313	4.063	.313	.375	
2.25	2.625	4.5	.375	.438	
2.5	2.875	5.063	.375	.5	
2.625	3	5.25	.375	.5	
2.75	3	5.563	.438	.563	
3	3.5	6.125	.438	.563	
3.125	3.625	6.375	.5	.625	
3.25	3.25 3.75		.5	.625	
3.313	3.813	6.688	.5	.688	
3.5	4	7.125	.563	.688	
3.75	4.313	7.625	.563	.75	
4	4.625	8.125	.625	.813	
4.063	4.75	8.25	.625	.813	
4.25	4.875	8.625	.625	.813	
4.375	5	8.875	.688	.875	
4.5	4.5 5.188		.688	.875	

Α	В	С	D	E
4.75	5.438	9.625	.75	1
4.875	5.625	9.875	.75	1
5	5.75	10.125	.75	1
5.25	6	10.625	.813	1.063
5.5	6.375	11.125	.875	1.125
5.75	6.625	11.688	.875	1.125
6	6.875	12.188	.938	1.188
6.5	7.5	13.188	1	1.625
7	8	14.188	1.063	1.375
7.5	8.625	15.188	1.125	1.5
8	8 9.188		1.25	1.625



WARNING SIGN COLORS:

BORDER & ARROW — BLACK SYMBOL — SEE R2-1

BACKGROUND - YELLOW (RETROREFLECTIVE)

TTC COLORS:

BORDER & ARROW — BLACK SYMBOL — SEE R2-1

BACKGROUND — ORANGE (RETROREFLECTIVE)

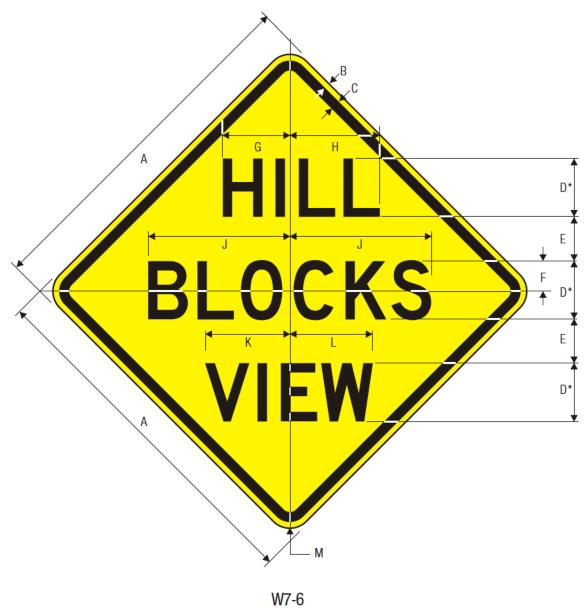


W5-1	
ROAD NARROWS	

	Α	В	C	D	Ł	F	G	Н	J	K	L
	30	.5	.75	5 D	3	1.75	7.875	8.625	14.75	15.125	1.875
C	36	.625	.875	6 D	3.5	2	9.5	10.313	17.625	18.25	2.25
	48	.75	1.25	8 D	4	3	12.688	13.75	23.5	24.375	3

WARNING SIGN COLORS: LEGEND - BLACK BACKGROUND— YELLOW (RETROREFLECTIVE)

TTC SIGN COLORS: LEGEND - BLACK BACKGROUND— ORANGE (RETROREFLECTIVE)



HILL BLOCKS VIEW

*Series 2000 Standard Alphabets.

	Α	В	С	D	E	F	G	Н	J	K	L	М	
	24	.375	.625	4 D	3	2	4.803	6	9.747	5.844	5.724	1.5	
C	30	.5	.75	5 D	3.802	2.601	5.764	7.765	12.189	7.285	7.165	1.875	
	36	.625	.875	6 D	4.483	3	6.845	9.367	14.631	8.886	8.446	2.25	
	48	.75	1.25	7 D	5.243	3.522	8.326	10.608	17.052	10.167	10.047	3	

COLORS: LEGEND — BLACK

BACKGROUND - YELLOW (RETROREFLECTIVE)



Α	В	С	D	Е	F	G	Н	J	K	L	М
24	0.375	0.625	4 C	2	2.5	1.5	5.522	4.282	6.553	7.053	1.5
36	0.625	0.875	6 C	3	4	2	8.283	6.423	9.954	10.454	2.25
48	0.75	1.25	8 C	4	5	3	11.044	8.564	13.105	14.105	3

COLORS: LEGEND, BORDER — BLACK
BACKGROUND — YELLOW (RETROREFLECTIVE)